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FABRICATION AND TESTING OF

MOS SCALER/LOGIC AND OVERHEAD SAFETY INTEGRATED CIRCUIT

MAY 1976

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Prepared by

COLLINS COMMERCIAL TELECOMMUNICATIONS DIVISION
ROCKWELL INTERNATIONAL
4311 JAMBOREE BOULEVARD
NEWPORT BEACH, CALIFORNIA 92663

Under Contract DAAG39-75-C-0146





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U.S. Army Materiel Development and Readiness Command HARRY DIAMOND LABORATORIES Adelphi, Maryland 20783

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Fabrication and Testing of MOS Scaler/Lt gic and Overhead Safety Integrated Circuit, Gerald L. Donaldso.
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1. INTRODUCTION

1.1 Scope

The scope of the Harry Diamond Laboratories (HDL) contract DAAG39-75-C-0146 was to fabricate and test 7000 MOS Scaler/Logic and Overhead Safety Integrated Circuits. These devices were assembled in 16 pin, side-brazed, dual-in-line ceramic packages. The circuit operation is defined by HDL Specification Control Drawing 11711256. The circuit provides the scaling and overhead safety functions for the XM587E2/XM724 Electronic Time Fuze currently under development at HDL.

1.2 Background

The MOS Scaler/Logic and Overhead Safety Circuit as specified by HDL drawing 11711256 was originally designed, fabricated, and tested by Collins Radio under HDL contract DAAG39-74-C-0161. The results of this previous contract are enumerated in HDL-CR-75-161-1. Figure 1 is a detailed logic diagram of the MOS Scaler/Logic and Overhead Safety Circuit.

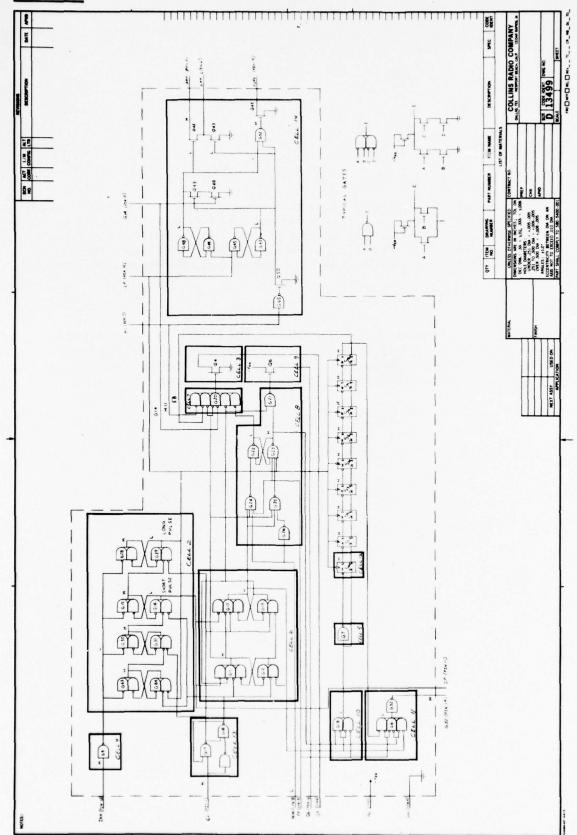


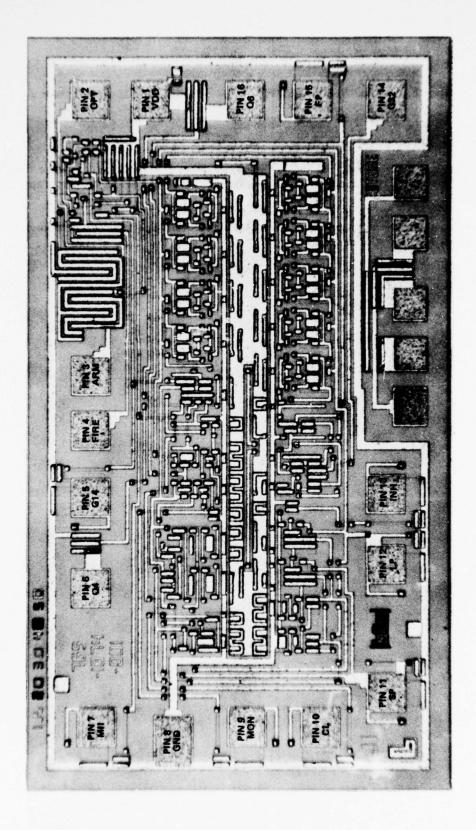
Figure 1. Logic Diagram of MOS Scaler/Logic and Overhead Safety Circuit.

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2. FABRICATION

The MOS Scaler/Logic and Overhead Safety Circuit was fabricated by using the standard Collins Radio High Threshold PMOS Process. The characteristics of this particular MOS process are shown in appendix A.

Figure 2 shows a microphotograph of the chip after all processing steps have been completed. The chip size is 101.0 X 59.0 mils.



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Figure 2. Microphotograph of MOS Scaler/Logic and Overhead Safety Chip.

3. PACKAGING

3.1 Pin Definition

The MOS Scaler/Logic and Overhead Safety Circuit was delivered in a 16 pin, side-brazed, ceramic dual-in-line package. The functional description of each terminal is defined below.

PIN	DESCRIPTION			
1	VDD Power Supply			
2	OPT Output			
3	ARM Output			
4	FIRE Output			
5	G14 Input			
6	Q4 Output			
7	M11 Input			
8	GND (Substrate)			
9	MON Input (Monitor Line)			
10	CL Input (Clock)			
11	SP Output (Short Pulse)			
12	LP Output (Long Pulse)			
13	INH Input (Inhibit)			
14	G32 Output			
15	FP Input (Fuze Power)			
16	Q6 Output			

3.2 Additional Ceramic Vendors

Only one vendor is qualified to supply the 16 lead side-brazed ceramic dip used for this contract. For large production orders, multiple sources are desirable. For this reason, Collins has researched the other vendors, and if HDL can allow the length dimension to increase from 0.755 to 0.805 in., two alternate sources are available. If a large production order is received, Collins will qualify the additional package vendor(s), provided the package dimensions are acceptable and approved by HDL.

3.3 Injection Molded Plastic Packages

Another alternative to ceramic packages is injection-molded plastic packages. HDL and Collins jointly investigated the encapsulation of the MOS Scaler/Logic and Overhead Safety Circuit in 16 lead-molded plastic dual-in-line packages during the execution of HDL contract DAAG39-74-C-0161. The result of this mutual study is that the MOS Scaler/Logic and Overhead Safety Circuit can meet the HDL quality requirements when encapsulated in a 16-pin molded plastic dual-in-line package. This alternate packaging method will result in a lower unit cost for large production buys.

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4. TEST

4.1 Functional and Parametric Testing

Both functional and parametric testing were performed on the HDL Scaler/Logic and Overhead Safety Circuit by a Fairchild Sentry 600 Tester located at the Collins Radio Group, Newport Beach facility.

The test program used was the same as that used on HDL Contract DAAG39-74-C-0161 with three minor exceptions.

- a. In order to provide more efficient and reliable temperature testing capabilities the program was modified to use a naked dip handler system rather than the previously used carrier-based system.
- b. To speed up go/no-go testing the program was modified to bypass the variable data measurements during go/no-go testing. Variables data is still available under test operator control.
- c. Improved test techniques, such as pre-conditioning before variables data measurement, were incorporated for more reliable, large volume testing. The implementation was on the recommendations of the Fairchild Sentry 600 Application group.

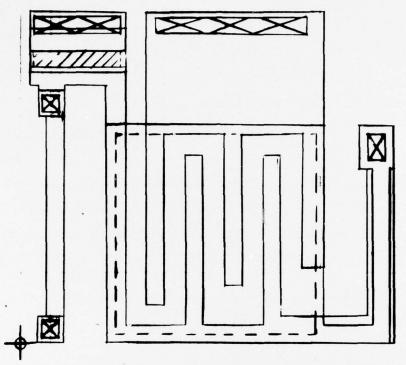
The listing of the Modified Symbolic Source Program used on the MOS Scaler/Logic and Overhead Safety Circuit is contained in appendix B.

4.2 Device Testing

Collins successfully tested all the devices to the specified requirements of HDL Specification Control Drawing 11711256. During the evaluation of the test results it was discovered that a large portion of the reject devices had failed due to a marginal negative input breakdown. Collins Design and Process Engineering has determined that a yield improvement can be achieved if the P-Region spacing on the field inversion transistor of the input protection device is increased from 0.4 to 0.5 mils. This modification can be accomplished via a single layer change (Layer 1). A composite of the modified input protection device is found in figure 3.

4.3 Acceptance Testing

Collins Radio Group meets all the Product Assurance requirements of MIL-M-38510, Appendix A, in addition to MIL-Q-9858. All MOS Scaler/Logic and Overhead Safety packages delivered to HDL were manufactured per MIL-STD-883, Method 5004, Class B. The Collins implementation of the HDL requirements is shown in the flow chart, figure 4. In addition, 164 devices from the first article lot of 1,000 devices, as well as 164 devices from the production lot, were subjected to the Group A, B and C Qualification Tests defined in HDL Specification Control Drawing 11711256. A flow chart of this Quality Assurance Acceptance Testing is shown in figures 5 and 6. A summary of the results is found in figures 7 and 8.



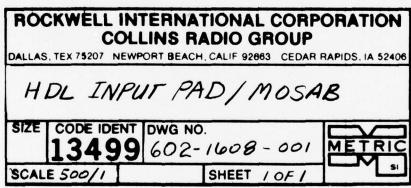
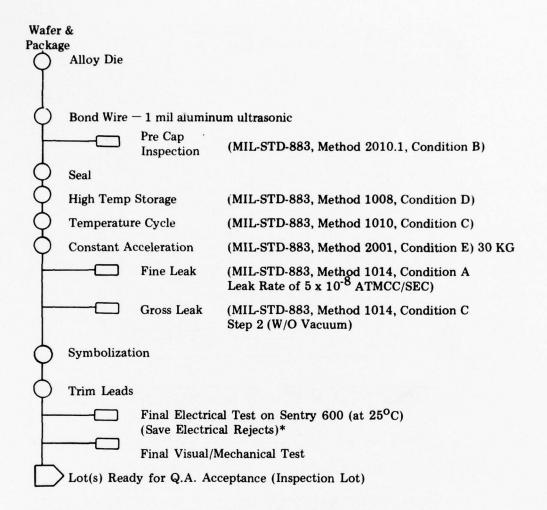


Figure 3. Composite of Modified Input Protection Device.



^{*}These electrical rejects could be used in mechanical tests of Q.C. Acceptance.

Figure 4. Flow Chart of MIL-STD-883, Method 5004, Class B Screening Process.

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Inspection Lot formed for Q.A. Acceptance. Government Source Inspection to pull following samples from the lot submitted for acceptance. (a) 132 samples for acceptance tests A1, A2, A3, A4, B1, B2, B3, and C1 32 samples (these may be electrical rejects) for acceptance tests B4, B5, B6 and B7. Serialize qualification samples. Group (b) samples are identified by an R preceeding the serial number. Hold remaining quantity of inspection lot. Devices from (a) and (b) are ready for Q.A. Acceptance Test. External Visual Inspection (MIL-STD-883, Method 2009). This will be performed on 18 devices from (a) above. Allow one reject. Operational Test (MIL-STD-883, Method 3008, 3005). Total sample size is 132 devices. Test all 132 devices. Record data for only 25 acceptable devices plus all rejects by serial number. Allow three rejects. High Temp Test (+75°C). Allow one reject. On the 25 devices with variables data from A2 test above. Low Temp Test (-55°C). Allow one reject. On all 25 devices record the data at high temp and low temp by serial number. Temperature Cycle (MIL-STD-883, Method 1010, Condition A except Step 3 temp shall be 75° ± 2°C and 8 Test Cycles). 25 Devices. Allow one reject. Subsequent to temp cycle check electrically go-no go for A2 tests above, however read and record data on only 10 devices by serial number. Mech. Shock (MIL-STD-883, Method 2002, Condition B Orientation Y₁ and Y₂). B2-2 Constant Acceleration (MIL-STD-883, Method 2001, Condition E, Orientation Y₁ and Z₁). 25 devices. Allow one reject. Subsequent to Mech Shock and Constant Acceleration, check electrically go-no go for A2 tests, however, read and record data on only 10 devices by serial number. High Temp Storage (MIL-STD-883, Method 1008, Condition C for 500 hours) 25 devices. Subsequent to Storage Test check electrically go-no go for A2 tests, however, read and record data on only 10 devices by serial number. Two devices are also included in samples as spares. They will not be measured except for government certified "no-test." Vertical Recovery (to be performed by Government) on 5 devices. Government will return

Figure 5. Quality Assurance Acceptance Test - Part I.

the devices for retest.

DESTRUCTIVE TESTS ON DEVICES NOS. R1 THROUGH R32

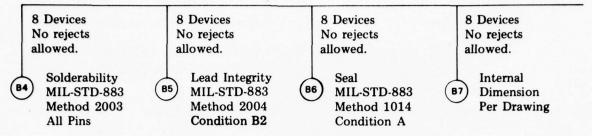


Figure 6. Quality Assurance Acceptance Test - Part II.

CLID	RESULTS OF ACCEPTANCE TESTING						
SUB- GROUP		RESULTS	REMARKS				
A1	EXTERNAL VISUAL	NO FAILURES					
A2	OPERATIONAL TEST	NO FAILURES					
A3 & A4	HIGH & LOW TEMPERATURE TEST	1 FAILURE	ONE FAILURE ALLOWED PASSED SUBGROUP REQUIREMENTS				
B1	TEMPERATURE CYCLE	NO FAILURES					
B2.1 B2.2	SHOCK AND ACCELERATION	NO FAILURES					
В3	500 HOUR HIGH TEMPERATURE STORAGE	NO FAILURES					
B4	SOLDERABILITY	NO FAILURES					
B5	LEAD INTEGRITY	NO FAILURES					
В6	SEAL	NO FAILURES					
В7	INTERNAL DIMENSIONS	NO FAILURES					
C1	VERTICAL RECOVERY	NO FAILURES	30,000G BY HDL				

Figure 7. Results of First Article Quality Acceptance Tests.

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CLID	RESULTS OF ACCEPTANCE TESTING						
SUB- GROUP		RESULTS	REMARKS				
A1	EXTERNAL VISUAL	THREE FAILURES	LEADS TOO THICK - WAIVER APPROVED BY HDL				
A2	OPERATIONAL TEST	NO FAILURES					
A3 & A4	HIGH & LOW TEMPERATURE TEST	NO FAILURES					
B1	TEMPERATURE CYCLE	NO FAILURES					
B2.1 B2.2	SHOCK AND ACCELERATION	NO FAILURES					
В3	500 HOUR HIGH TEMPERATURE STORAGE	NO FAILURES					
B4	SOLDERABILITY	NO FAILURES					
В5	LEAD INTEGRITY	NO FAILURES					
В6	SEAL	NO FAILURES					
В7	INTERNAL DIMENSIONS	NO FAILURES					
C1	VERTICAL RECOVERY	NO FAILURES	30,000G BY HDL				

Figure 8. Results of Production Lot Acceptance Tests.

Three subgroup A1 (External Visual) failures occurred during the production lot quality acceptance testing because the leads were 0.01 in. too thick. These failures will be eliminated in the future by a tightened receiving inspection sample measurement of all leads.

It can be concluded that Collins successfully completed the quality acceptance testing as outlined in the HDL Specification Control Drawing 11711256, with the exception of the test dealing specifically with the dual-in-line package. For the test where package failures occurred, a one-time waiver was approved.

The parametric results of first-article and production lot acceptance testing are found in appendices C and D, respectively.

5. CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

The Collins Radio Group of Rockwell International successfully completed the fabrication and testing of the Scaler/Logic and Overhead Safety Integrated Circuit in accordance with the HDL Specification Control Drawing 11711256. Upon completion of the contract all 7,000 acceptable devices were delivered to HDL.

Several important points resulting from this program are:

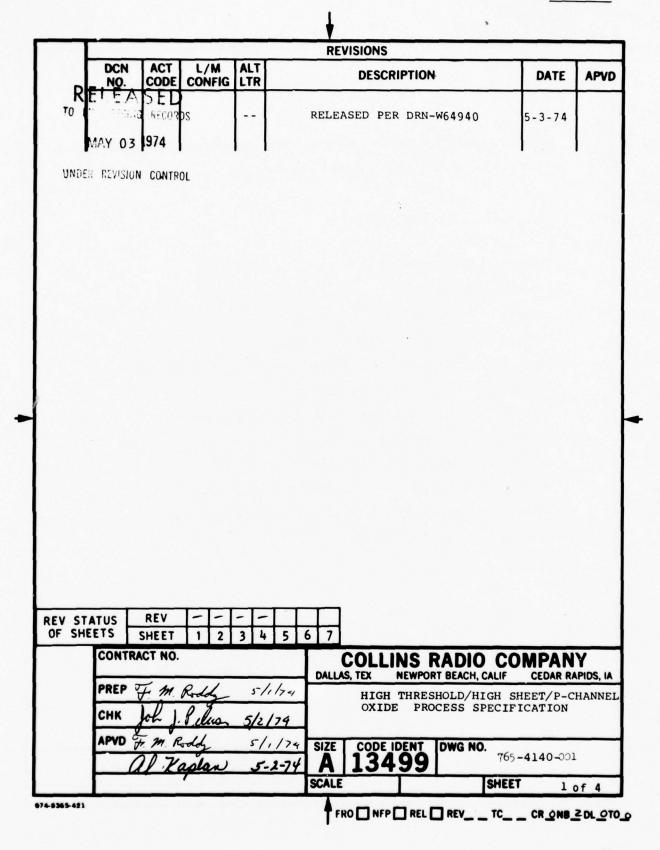
- a. The MOS Scaler/Logic and Overhead Safety Circuit chip can be fabricated and tested in production volumes.
- The MOS Scaler/Logic and Overhead Safety Circuit meets all requirements over the temperature range of -55 to +75°C.
- c. The MOS Scaler/Logic and Overhead Safety Circuit can be efficiently tested on the Sentry 600 tester.

5.2 Recommendations

The following suggestions are recommended to enhance the fabrication of production quantities of the MOS Scaler/Logic and Overhead Safety Circuit.

- Develop guard band test parameters for 25°C production testing.
- Encapsulate devices in molded plastic packages for lower unit cost and better shock environment.
- c. Use the high volume/high yield version (P/N 148-1350-001) of the P-Channel, high threshold process (P/N 765-4140-001) used on this contract.
- d. If using ceramic packages, delete the aging requirement from the Subgroup B4 test conditions.
- e. If using ceramic packages, change the package length dimension from a 0.755 to 0.805 in., which will allow up to two alternate sources to be approved.
- f. Modify input protection device to allow a higher breakdown and thus a higher yield.

APPENDIX A COLLINS PROCESS SPECIFICATION 765-4140-001



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PROCESS SPECIFICATION

765-4140-001

THIS DOCUMENT DEFINES THE MATERIAL AND ELECTRICAL CHARACTERISTICS FOR A HIGH THRESHOLD P-CHANNEL MOS PROCESS.

MATERIAL CHARACTERISTICS

ORIENTATION PLANE (111)

TYPE - CZOCHRALISKI

DOPING - PHOSPHOROUS (N)

OXYGEN CONTENT - 10^{18} ATOMS/CM³ MAXIMUM

DISLOCATION DENSITY - 500/Cm² AVERAGE, 1000/Cm² MAXIMUM

RESISTIVITY - 5 + 1.5 OHM CENTIMETER

MINORITY CARRIER LIFETIME - 5 MICROSECONDS MINIMUM

DIAMETER - 2 + .01 INCHES

THICKNESS - 0.0011 \pm 0.0015 INCHES

WAFER FLAT ORIENTATION - PARALLEL TO (110) PLANE \pm 1 $^{\circ}$

FRONT SURFACE FINISH - LESS THAN 3 MICROINCHES RMS

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POLISHED FRONT, ETCHED BACK

SIZE CODE IDENT DWG NO. 765 -4140-001

SCALE REV SHEET 2

074-8365-422 5-8-72

PROCESS PARAMETERS (VALUES ARE + 10% UNLESS OTHERWISE INDICATED)

P-REGION SHEET RESISTIVITY

(4 POINT PROBE MEASUREMENT)

120 OHMS PER SQUARE

DIFFUSION DEPTH VERTICAL

2.2 MICRONS

LATERAL DIFFUSION

1.5 MICRONS

ALUMINUM SHEET RESISTIVITY

0.04 OHMS/SQUARE

ALUMINUM THICKNESS

10,000 ANG NOMINAL RANGE

8,500 TO 13,000 ANG

GATE OXIDE THICKNESS

1,400 ANG

OXIDE THICKNESS OVER N-FIELD

18,000 ANG

OXIDE THICKNESS OVER P-DIFFUSION

18,000 ANG

CAPACITANCES

GATE

0.15 PF/SQ MIL (VGS=-1V)

METAL OVER P-REGION

0.012 PF/SQ MIL

METAL OVER N-FIELD

0.012 PF/SQ MIL

P-REGION TO SUBSTRATE

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0.04 PF/SQ MIL (VPS=-1V)

TYPICAL PROCESS ELECTRICAL DEVICE CHARACTERISTICS

DEVICE CONSTANT - B' = 2K' = UKE/X (AVERAGE)

-55 DEG C, 10.3 MICROAMPERES PER VOLT-SQUARED VD = -1V, VGS = -12V

+25 DEG C, 5.9 MICROAMPERES PER VOLT-SQUARED VD = -1V, VGS = -12V

+125 DEG C, 4.5 MICROAMPERES PER VOLT-SQUARED VD = -1V, VGS =-12V

THRESHOLD VOLTAGE CHANGE WITH SOURCE-SUBSTRATE BACK BIAS

CODE IDENT 13499

DWG NO.

765 -4140 - 001

SCALE

SHEET

074-8365-422 5-6-72

SOURCE-SUBSTRATE BACK BIAS

THRESHOLD CHANGE

-1V

-0.4V

-4V

-1.0V

-16V

-2.4V

TEMPERATURE COEFFICIENT OF THRESHOLD VOLTAGE -4.0 MV/DEG C MAX

MOS TEST DEVICE SPECIFICATIONS AND TYPICAL

CHARACTERISTICS

A TEST DEVICE IS INCORPORATED IN ALL COLLINS MOS-LSI ARRAYS.

MASK DIMENSIONS AND ELECTRICAL CHARACTERISTICS OF A TYPICAL

DEVICE ARE:

MOS TEST DEVICE

GATE WIDTH 4.6 MIL GATE LENGTH 0.4 MIL

FIELD INVERSION TEST DEVICE

GATE WIDTH 4.8 MIL GATE LENGTH 0.4 MIL

THRESHOLD VOLTAGE

VTH AT IDS = 10 MICROAMPERES 3.4

TO 4.4V

THRESHOLD CHANGE OVER LIFE

BVDSS (DRAIN TO SOURCE BREAKDOWN)

LESS THAN 0.5 VOLT

30 VOLTS MIN.

35 - 40 VOLTS TYPICAL AT IDS = 10 MICROAMPERES

BVGSS (GATE OXIDE BREAKDOWN)

VTF (FIELD INVERSION VOLTAGE)

100 VOLTS MIN 32 VOLTS MIN

40 VOLTS TYPICAL AT IDS = 10 MICROAMPERES

RON (DEVICE ON RESISTANCE)

1.0K + OR - 0.5K OHMS ATVGS = -12V, VDS = -1V

DWG NO.₇₆₅ -4140-331 CODE IDENT

SCALE

REV

SHEET

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074-8365-422 5-6-72

APPENDIX B TEST PROGRAM FOR FAIRCHILD SENTRY 600 TESTER

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REVISIONS RELEASED LTR DESCRIPTION DATE APVD TO ENGINEERING RECORDS RELEASED PER DRN W-66380 JAN 27 1976 UNDER REVISION CONTROL THIS SPECIFICATION DETAILS A SENTRY TEST PROGRAM SOURCE LISTING FOR COMPREHENSIVE DEVICE TESTS ON THE SENTRY 600 MOS TESTER. THE DEVICE NAME IS HARRY DIAMOND LABS MOS SCALER. THE DEVICE TOP LEVEL PART NUMBER IS 765-1905-001. THIS SPECIFICATION SUPERCEDES 615-0552-400, (DELETED). CONTRACT NO. **ROCKWELL INTERNATIONAL CORPORATION COLLINS RADIO GROUP** DALLAS, TEX 75207 NEWPORT BEACH, CALIF 92663 CEDAR RAPIDS, IA 52406 PREP G. THAYER OF 2-25-76 SENTRY 600 TEST PROGRAM FOR HARRY DIAMOND CHK D MULLINS DX m 2-25-76 LABS MOS SCALER DEVICE APVD G. DONALDSON 1 2-25-76 SIZE CODE IDENT DWG NO. 615-0552-401 SCALE SHEET 1 OF 65 074-8365-421- REV 2-17-75 REL X REV__ TC _ CR O NB 2 DL O TO O

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000001		TEST PROGRAM H. GILL, J. ILLGNER, D. MULLINS.						
000001		COLLINS RADIO GROUP. JULY 1 1974.						
000001		TEST PROGRAM USN ~ 505524.						
000001								
000001								
000001		****	***	***	****	*****		
000001		*TESTER	PIN PKG P	IN MPAB PR	OB SIGNAL	FUNCTION *.		
000001		****	****	***	****	****		
000001								
000001		1	1	4	VDD	PWR(I)		
000001		2	2	8	OPT	IN/OUT		
000001		3	3	11	ARM	OUTPUT		
000001		4	4	14	FIRE	OUTPUT		
000001		5	5	17	G14	INPUT		
000001		6	6	20	Q4	OUTPUT		
000001		7	7	20	M11	INPUT		
000001		8	8	28	GND	PWR(I)		
000001		9	9	32	MON	INPUT		
000001		10	10	35	CL	INPUT		
000001		11	11	37	SP	OUTPUT		
000001		12	12	39	LP	OUTPUT		
000001		13	13	41	INH	INPUT		
000001		14	14	43	G32	OUTPUT		
000001		15	15	51	FP	INPUT		
000001		16	16	53	Q6	OUTPUT		
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000001					3D ONLY.)			
000001			2. 2			ON FIRST FAILURE (HOT)		
000001			2. 3	a distribution of the same of		ON FIRST FAILURE(COLD)		
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000001			7	SCOPE LOO				
000001			8	VARIABLE	DHIH			
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000001	CTADT	CET	AGE 1024 ;					
000001	START			874 001 95	410, 1905, 00	1. 25. 7555.		
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						017 0772 401		

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```
000003
                       IF SWITCH NEG O THEN GOTO VARDAT ;
000005
                       WRITE (TTP)
                       WRITE (TTP) ** IS LINE PRINTER OPERATIONAL ? **;
900000
                       WRITE (TTP) 4 4
000007
                       WRITE (TTP) '* TYPE "0" IF YES. "1" IF NOT. *';
000010
000011
                       READ (TTK) GLOBS;
                       IF GLOBS NEQ O THEN GOTO INF:
000012
000014
000014
                       WRITE (LF) ************************
                       WRITE (LP) 1# HARRY DIAMOND LABS - MOS SCALAR. *1;
WRITE (LP) 1#PROGRAM COMPILED JULY 1 1974. *1;
WRITE (LP) 1#1ST HEDDAY DEPENDMEN AUG 2 1974. *1;
000015
000016
                       WRITE (LP) **PROGRAM COMPILED SOLT 1 1774.
WRITE (LP) **1ST UPDATE PERFORMED AUG. 2 1974.
WRITE (LP) **2ND UPDATE PERFORMED SEPT. 16 1974.
WRITE (LP) **3RD UPDATE PERFORMED SEPT. 4 1975.
000017
000020
000021
                       WRITE (LP) **4TH UPDATE PERFORMED NOV. 6 1975.
000022
000023
                       WRITE (LP) ********************************
000024
000024
            INF:
000024
                       WRITE (TTP) **********************************
                       WRITE (TTP) ** REVISION 12 (PER SPECS)
WRITE (TTP) ** DSN - 505524 01. SEPT. 4 1975.
000025
                                                                                  * 1
000026
                                                                                   # 1:
                                                    765-1905-001,
765-1974-001,
765-1974-001,
                       WRITE (TTP) (*PKG CPN
000027
000030
                       WRITE (TTP) (*CHIP CPN
                       WRITE (TTP) **MPAB ASSY, CPN
000031
                                                             765~1906-001
                       WRITE (TTP) **PERFORMANCE BD. CPN 765-1907-001.
000032
                       WRITE (TTP) '*DIE SIZE (101 X 59) MILS.
000033
                       WRITE (TTP) **NUMBER OF COMP. DIE/WAFER = 410.
000034
                       WRITE (TTP) **WAFER TEMP 850, PKG T 25,75,-55.
000035
000036
                       WRITE (TTP) **********************************
000037
000037
                       INSERT COMMENCE;
000037
            REM
                      ****
000037
                       COMMENCE
                                         9/4/75.
000037
                      ***
000037
000037
                       WRITE (TTP) *****************************
000037
            RIN1:
                       WRITE (TTP) '*----*';
000040
                       WRITE (TTP) **READ THE FOLLOWING DESCRIPTION OF TESTS**;
0000041
                       WRITE (TTP) * AND THEN TYPE THE DESIRED NUMBER
000042
                        WRITE (TTF) ***********************
000043
                       WRITE (TTP) / /;
WRITE (TTP) / NAME OF TEST TYPE NUMBER*;
000044
0000045
                        WRITE (TTP) WAFER TEST (HOT)
000046
                                                                      1';
                        WRITE (TTP) PACKAGE TEST AT ROOM TEMP
000047
                                                                        21
                       WRITE (TTP) PACKAGE TEST AT ROOM TEMP.
000050
                                                                        2. 11;
                       WRITE (TTP) (STATION 3D ONLY, HANDLER)
000051
                       WRITE (TTP) PACKAGE TEST FINAL (HOT)
000052
                                                                        2. 21
                       WRITE (TTP) PACKAGE TEST FINAL (COLD)
000053
                                                                        2.34;
                       WRITE (TTP) 'SUMMARY OF WAFER TESTING WRITE (TTP) 'SUMMARY OF PACKAGE TESTING
000054
                                                                        31,
000055
                                                                        4 ;
                       WRITE (TTP) ENGR WAFER TEST
WRITE (TTP) ENGR PACKAGE TEST
000056
                                                                        5%
000057
000060
                       WRITE (TTP) 'SCHMOO PLOTS
                                                                        6. 5-6. 77
                       WRITE (TTP) /SCOPE LOOP (WFR & PKG)
WRITE (TTP) /VARIABLE DATA
000061
000062
000063
000063
                       READ (TTK) SWITCH ;
000064
```

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```
000064
            VARDAT .
000064
000064
                       IF GLOBIS EQ 1 THEN BEGIN
000065
                       GLOB13 - 0;
000066
                       PAUSE 1;
000067
                       GOTO DEVVAR:
000070
                       END;
000070
                       IF SWITCH EQ 3 THEN GOTO WAFSMRY;
000072
                       IF SWITCH EQ 4 THEN GOTO PKGSMRY;
000074
                       IF SWITCH LT 9 THEN GOTO DEVVAR;
000076
000076
                       WRITE (TTP) '-----BAD TEST NUMBER, RETYPE-----;
000077
                       GOTO RTN1;
000100
000100
            DEVVAR:
000100
                       DCL BIN[7]/1B, 42B, 2B, 4B, 10B, 10B, 20B/; REM CARR. SYSTEM;
000101
000101
            PRESET:
000101
                       FORCE RESET:
000102
                       FORCE VF1 0.0, RNG2;
000103
                       FORCE VF2 0. 0, RNG2;
000104
                       FORCE VF3 0. 0, RNG2;
                       SET DA * (60:1);
000105
000106
                       SET MA # (60:0);
000107
                       SET PERIOD 1E-6;
000110
                       ENABLE DA. MA:
000110
                       SET F * (60:0);
000111
                       ENABLE TEST;
000112
000112
                  CHECK OF CORRECT PROGRAM LOAD;
            REM
000112
000112
                       IF (GLOB4 AND 1B) EQ O THEN BEGIN
                       ENABLE DCT1 GT V[11] + 50E-9; ENABLE DCT0 LT V[12] - 50E-9;
SET PMU SENSE, AUTO; FORCE VOLTAGE O, RNG2;
ENABLE RELAY; CPMU PIN 59; DISABLE RELAY;
000113
000115
000117
                       FORCE VOLTAGE -5. 0, RNG2; SET DELAY 10E-3, DC;
000122
000124
                                      MEASURE VALUE;
                       FORCE DELAY;
                        IF VALUE LT (V[11]+50E-9) AND VALUE GT (V[12]-50E-9) THEN
000126
000127
                       GOTO ENDCHK;
000130
                       IF GLOBS EQ O THEN BEGIN
000130
            WMSG:
                        WRITE (LP) < < WRITE (LP) < <;
000131
000133
                        WRITE (LP) /* WRONG TEST PROGRAM OR PERFORMANCE BOARD. */;
                        WRITE (LP) 1999 CHECK YOUR WORK 999 1;
000134
000135
                       END;
000135
                        IF GLOBS EQ 1 THEN BEGIN
000136
                        WRITE (TTP) < 4; WRITE (TTP) < 4;
                       WRITE (TTP) /* WRONG TEST PROGRAM OR PERFORMANCE BOARD. */; WRITE (TTP) / ? ? ? CHECK YOUR WORK. ? ? ?/;
000140
000141
000142
                       END;
000142
                       GOTO ABORT;
000143
            ENDCHK:
000143
                       SET DELAY O, DC:
000144
                       GLOB4 - GLOB4 + 1B;
000145
                        FORCE VOLTAGE O, RNG2; ENABLE RELAY; XPMU PIN;
                        DISABLE RELAY; DISABLE DCTO; DISABLE DCT1;
000150
000153
                        END;
000153
                   DELAY GENERATED BY $600 TESTER FOR DIACON HANDLER;
            KEM
000153
                                          Page 4
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```
IF (SWITCH EQ 2.2 OR SWITCH EQ 2.3 OR SWITCH EQ 8) AND
000154
                     GLOB1 EQ O THEN BEGIN
000154
                     WRITE (1TP) * ONE MINUTE DELAY INITIATED - SMILE -. * ";
000155
                     DCDLY = 5, 0;
000156
                     SET DELAY DODLY, DO,
                     FOR I = 1 THRU 6 DO BEGIN
000157
000160
                     FORCE DELAY; FORCE WAIT;
                     END;
000162
                          REM 1 MIN DELAY FOR FIRST PACKGE BEFORE TEST;
000162
                     END;
                     SET DELAY O. O. DC;
000162
000163
          STST:
000163
                     IF (SWITCH GT 2 AND SWITCH LT 3) OR SWITCH EQ 8 THEN BEGIN
000164
                     IF GLOB1 EQ O THEN BEGIN
                     WRITE (TTP) 'IS THIS A STICK TO STICK HANDLER? (YES=0, NO-1)';
000165
000166
                     READ (TTK) X;
000167
                     IF X EQ O THEN BEGIN
000170
                     WRITE (TTP) THOW MANY PARTS IN A FULL STICK?
000171
                     READ (TTK) X;
000172
                     GLOB1 = X * 100B;
000173
                     END; END;
000173
000173
                     IF (GLOB1 AND 7700B) NEG O THEN BEGIN
000174
                     DCL BIN[7]/1B, 42B, 102B, 202B, 402B, 402B, 402B/;
000175
000175
                     IF (GLOB1 AND 7700B)/100B EQ (GLOB1 AND 77B) THEN BEGIN
                     GLOB1 - GLOB1 AND 7700B; REM RESET COUNT TO ZERO;
000176
                     WRITE (TTP) ** GOOD STICK IS FULL. . **;
000177
                     WRITE (TTF) ** INSERT EMPTY STICK AND PUSH START BUTTON, **;
000200
000201
                     WRITE (EIR) 1740B;
                     PAUSE 4;
000202
000203
                     END;
000203
000203
                     IF (GLOB1 AND 770000B)/100B EQ (GLOB1 AND 7700B) THEN BEGIN
000204
                     GLOB1 = GLOB1 AND 7700B;
000205
                     WRITE (TTP) '* REJECT STICK IS FULL. *';
                     WRITE (TTP) /* INSERT EMPTY STICK AND PUSH START BUTTON. */;
000206
000207
                     WRITE (EIR) 37B;
000210
                     PAUSE 5:
                     END; END;
000211
000211
                     IF GLOB1 EQ 0 AND SWITCH EQ 8 THEN GLOB1 - GLOB1 + 1;
000213
                     END:
000213
                     NOISE VOLTS, AMPS, SECS, KHZ;
000213
000213
                     IF SWITCH EQ 2 OR SWITCH EQ 2.1 THEN GLOB19 = V[8];
                     IF SWITCH EQ 2.2 THEN GLOB19 - V[9];
000215
000217
                     IF SWITCH EQ 2.3 THEN GLOB19 - V[10];
000221
000221
          REM
                 VARIABLE DEFINITIONS ;
                     V1=-27. 6 VOLTS ;
000221
                                                  REM VDD (A) ;
000222
                     V2=-21.5 VOLTS ;
                                                  REM VDD (B) ;
000223
                     V3=-17. 0 VOLTS ;
                                                   REM VDD (C) ;
000224
                     V4=0. 0 VOLTS ;
                                                   REM GND, TCOM ;
                     V5=-8. 0 VOLTS ;
000225
                                                  REM DATA, CLK LOW LEVEL;
                     V6=-2. 0 VOLTS ;
000226
                                                   REM DATA, CLK HIGH LEVEL ;
                     V7=-8. 0 VOLTS ;
000227
                                                   REM OUT LOW GP 1;
000230
                     V8=-2.0 VOLTS;
                                                   REM OUT HIGH GP 1;
                     V9=-4.0 VOLTS ;
000231
                                                   REM OUT LOW GP 2;
                     V10=-0. 1 VOLTS ;
000232
                                                   REM OUT HIGH GP 2;
                     V11=-21. 4 VOLTS ;
000233
                                                   REM OUT LOW GP 3;
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000234
                      V12=-2. 6 VOLTS ;
                                                    REM OUT HIGH GP 3;
                      V13--16. 9 VOLTS ;
000235
                                                  REM OUT LOW GP 4;
000236
                      V14=-2. 0 VOLTS ;
                                                    REM OUT HIGH GP 4;
000237
                      V15--16. 9 VOLTS ;
                                                   REM OUT LOW GP 5;
000240
                      V16--10. 0 VOLTS ;
                                                   REM OUT HIGH GP 5;
                      T1=25 KH2 ;
000241
                                                    REM T. FREQ. ;
000242
                      12=40E-6 SECS ;
                                                   REM T. PERIOD ;
000243
                      15=13E-6 SECS ;
                                                    REM DATA DELAY, TG2;
                                                   REM DATA WIDTH, TG2;
000244
                      16-20E-6 SECS ;
000245
                      17=30E-6 SECS ;
                                                  REM STROBE DELAY, TG7;
000246
                      T8=1E-6 SECS ;
                                                     REM STROBE WIDTH, TG7;
000247
                      IAMIN--2E-3 AMPS;
IAMAX--10E-3 AMPS;
000247
000250
000251
000251
                      BPASS - 0;
000252
000252
           FCTEST:
000252
                      GLOB2 = GLOB2 + 1;
                                                    REM TOTAL DEVICE COUNTER;
000253
           REM CONNECTIONS AND MASK DEFINITIONS ;
000253
                      SET LOGIC FOS ;
000254
                      SET DA * 10001 01111 00101 01000 (38:0)11;
000255
                      SET DB * 11001 01111 00101 01000 (38:0)11 ; REM OPT AS INPUT;
                      SET MB * 00000 00000 11010 (45:0); REM OUTS 11,12,14;
000256
                      SET MA # (60:0) ;
000257
                      SET S * 01(58:0);
000260
                      CGEN TG2 5, 7, 9, 13, 15 ;
000261
                                                    REM DATA PINS ;
                      CONN DPS1 8,60;
000262
                                                     REM GROUND ;
                      CONN DPS2 1, 17 ;
000263
                                                     REM VDD ;
000264
000264
                TEST SETUP ;
                      FORCE VF1 0.0, RNG2;
FORCE VF2 V2, RNG3;
000264
                                                     REM GND ;
                                                     REM VDD SUPPLY ;
000265
000266
                      FORCE EO VS, RNG2;
                                                     REM DATA 0 ;
000267
                      FORCE E1 V6, RNG2;
                                                    REM DATA 1 ;
                      FORCE EBO 0, 0, RNG2;
                                                   REM ALT SUPPLY DATA;
000270
                                                    REM OUT REF. ZERO 1;
REM OUT REF. ONE 1;
000271
                      SET SO V7, RNG2;
000272
                      SET S1 V8, RNG2;
000273
000273
           REM
                  TIMING GENERATOR CONNECTIONS AND DEFINITIONS ;
000273
                      SET PERIOD T2, RNG1 ;
                      SET TG2 DELAY 15, RNGO; SET TG2 WIDTH T6, RNGO; SET TG7 DELAY T7, RNGO; SET TG7 WIDTH T8, RNGO;
000274
000276
000300
000300
                      IF SWITCH LT 3 THEN ON FCT, CTEST ;
000302
                      IF SWITCH EQ 8 THEN ON FCT, VARD;
                                                     REM COUNTER FOR 5 OUTS LEVELS ;
000304
           NEXTO:
                      COMP = COMP + 1 ;
000305
000305
                      AT O ;
900309
                      INSERT HDLP1 ;
                                                    REM FIRST L. M. LOAD 0-999 LOCS;
                            HDL MOS SCALER LOAD 1 "HDLP1" CREATED 6/20/74.
900308
                      REM
900306
                   BY H. S. GILL. ;
900306
           ENABLE DA, MB ;
900309
           S1@ SET F 00001 01001 00111 00000 ;
           SET F 00001 01000 00111 10000 ;
000307
           SET F 00001 01001 00111 00000 ;
000310
           SET F 00001 01000 00111 10000 ;
000311
000312
           SET F 00001 01001 00111 00000 ;
           SET F 00001 01000 00111 10000 ;
000313
```

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000314
           SET F 00001 01001 00111 00000 ;
000315
           SET F 00001 01000 00111 10000 ;
000316
           SET F 00001 01001 00111 00000 ;
000317
           SET F 00001 01000 00111 10000
000320
           SET F 00001 01001 00111 00001
000321
           SET F 00001 01000 00111 10000
000322
           SET F 00001 01001 00111 00000 ;
000323
           SET F 00001 01000 00111 10000 ;
000324
           SET F 00001 01001 00111 00000 ;
000325
           SET F 00001 01000 00111 10000 ;
000326
           SET F 00001 01001 00011 00000 ;
000327
           SET F 00001 01000 00011 10000 ;
           SET F 00001 01001 00011 00000
000330
           SET F 00001 01000 10011 10000
000331
000332
           SET F 00001 01001 11011 00001 ;
           SET F 00001 01000 11011 00000 ;
SET F 00001 01001 11011 10000 ;
000333
000334
000335
           SET F 00001 01000 11011 10000 ;
000336
           SET F 00001 01001 11011 00000 ;
           SET F 00001 01000 11011 00000 ;
000337
000340
           SET F 00001 01001 11011 10000 ;
000341
           SET F 00001 01000 11011 10000 ;
           SET F 00001 01001 11011 00000 ;
000342
           SET F 00001 01000 11011 00000 ;
000343
            SET F 00001 01001 11011 10001 ,
000344
000345
           SET F 00001 01000 11011 10000 ;
000346
           SET F 00001 01001 11011 00000;
           SET F 00001 01000 11011 00000 ;
000347
000350
           SET F 00001 01001 11011 10000
000351
           SET F 00001 01000 11011 10000 ;
000352
           SET F 00001 01001 11011 00000 ;
000353
           SET F 00001 01000 11011 00000 ;
000354
            SET F 00001 01001 11011 10000 ;
000355
           SET F 00001 01000 11011 10000 ;
000356
           SET F 00001 01011 11011 00001;
000357
           SET F 00001 01010 11011 00000 ;
000360
           SET F 00001 01011 11011 10000 ;
           SET F 00001 01010 11011 10000 ;
SET F 00001 11011 11001 10000 ;
000361
000362
000363
           SET F 00001 11010 11001 10000
000364
            SET F 00001 01011 11011 10000
000365
           SET F 00001 01010 11011 10000 ;
           SET F 00001 11011 11001 10000 ;
995000
           SET F 00001 11010 11001 10000
000367
000370
           SET F 00001 01011 11011 10001 ;
000371
            SET F 00001 01010 11011 10000
000372
           SET F 00001 11011 11001 10000
           SET F 00001 11010 11001 10000 ;
000373
000374
            SET F 00001 01011 11011 10000
000375
            SET F 00001 01010 11011 10000
            SET F 00001 11011 11001 10000
000376
           SET F 00001 11010 11001 10000
000377
000400
           SET F 00001 01011 11011 10000
000401
            SET F 00001 01010 11011 10000
            SET F 00000 11011 11001 10001
000402
            SET F 00000 01010 11001 10000
000403
000404
           SET F 00000 01011 11011 10000 ;
           SET F 00000 01010 11011 10000
SET F 00000 11011 11001 10000
000405
000406
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```
000407
           SET F 00000 01010 11001 10000 ;
000410
           SET F 00000 01011 11011 10000 ;
000411
           SET F 00000 01010 11011 10000 ;
000412
           SET F 00000 11011 11001 10000 ;
000413
           SET F 00000 01010 11001 10000
000414
           SET F 00000 01011 11011 10001 ;
000415
           SET F 00000 01010 11011 10000
000416
           SET F 00000 11011 11001 10000
000417
           SET F 00000 01010 11001 10000 ;
           SET F 00000 01011 11011 10000 ;
000420
000421
           SET F 00000 01010 11011 10000
000422
           SET F 00000 11011 11001 10000 ;
           SET F 00000 01010 11001 10000 ;
000423
000424
           SET F 00000 01011 11011 10000
000425
           SET F 00000 01010 11011 10000
000426
           SET F 00001 11011 11001 10001 ;
000427
           SET F 00001 11010 11001 10000
000430
           SET F 00001 01011 11011 10000 ;
000431
           SET F 00001 01010 11011 10000
000432
           SET F 00001 11011 11001 10000 ;
000433
           SET F 00001 11010 11001 10000
000434
           SET F 00001 01011 11011 10000
000435
           SET F 00001 01010 11011 10000
000436
           SET F 00001 11011 11001 10000 ;
           SET F 00001 11010 11001 10000
000437
000440
           SET F 00001 01011 11011 10001 ;
000441
           SET F 00001 01010 11011 10000
000442
           SET F 00001 11011 11001 10000
000443
           SET F 00001 11010 11001 10000
000444
           SET F 00001 01011 11011 10000
000445
           SET F 00001 01010 11011 10000 ;
000446
           SET F 00001 11011 11001 10000 ;
000447
           SET F 00001 11010 11001 10000
000450
           SET F 00001 01011 11011 10000 ;
000451
           SET F 00001 01010 11011 10000
000452
           SET F 00001 00011 11001 10011
000453
           SET F 00001 00010 11001 10000-
000454
           SET F 00001 00011 11011 10000 ;
000455
           SET F 00001 00010 11011 10000
000456
           SET F 00001 00011 11001 10000
000457
           SET F 00001 00010 11001 10000
           SET F 00001 00011 11011 10000 ;
000460
000461
           SET F 00001 00010 11011 10000
           SET F 00001 00011 11001 10000
000462
000463
           SET F 00001 00010 11001 10000
           SET F 00001 00011 11011 10001
000464
           SET F 00001 00010 11011 10000
000465
000466
           SET F 00001 00011 11001 10000
000467
           SET F 00001 00010 11001 10000
           SET F 00001 00011 11011 10000
000470
000471
           SET F 00001 00010 11011 10000
000472
           SET F 00001 00011 11001 10000
000473
           SET F 00001 00010 11001 10000
000474
           SET F 00001 00011 11011 10000
000475
           SET F 00001 00010 11011 10000
000476
           SET F 00001 11011 11001 10001
000477
           SET F 00001 11010 11001 10000
000500
           SET F 00001 01011 11011 10000
           SET F 00001 01010 11011 10000 ;
000501
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000502
           SET F 00001 11011 11001 10000 ;
           SET F 00001 11010 11001 10000 ;
000503
           SET F 00001 01011 11011 10000 ;
000504
000505
           SET F 00001 01010 11011 10000
000506
           SET F 00001 11011 11001 10000
000507
           SET F 00001 11010 11001 10000
           SET F 00001 01011 11011 10001
000510
000511
           SET F 00001 01010 11011 10000
000512
           SET F 00001 11011 11001 10000
000513
           SET F 00001 11010 11001 10000
           SET F 00001 01011 11011 10000 ;
000514
000515
           SET F 00001 01010 11011 10000
000516
           SET F 00001 11011 11001 10000
000517
           SET F 00001 11010 11001 10000
000520
           SET F 00001 01011 11011 10000 ;
000521
           SET F 00001 01010 11011 10000 ;
000522
           SET F 00001 11011 11001 10001
           SET F 00001 11010 11001 10000 ;
000523
           SET F 00001 01011 11011 10000 ;
000524
000525
           SET F 00001 01010 11011 10000 ;
000526
           SET F 00001 11011 11001 10000
000527
           SET F 00001 11010 11001 10000;
           SET F 00001 01011 11011 10000 ;
000530
000531
           SET F 00001 01010 11011 10000
           SET F 00001 11011 11001 10000 ;
000532
000533
           SET F 00001 11010 11001 10000 ;
000534
           SET F 00001 01011 11011 10001 ;
000535
           SET F 00001 01010 11011 10000
000536
           SET F 00001 11011 11001 10000
           SET F 00001 11010 11001 10000 ;
000537
000540
           SET F 00001 01011 11011 10000 ;
000541
           SET F 00001 01010 11011 10000
000542
           SET F 00001 11011 11001 10000 ,
           SET F 00001 11010 11001 10000 ;
000543
           SET F 00001 01011 11011 10000 ;
000544
000545
           L1@ SET F 00001 01010 11011 10000 a
           ENABLE DB. MB ;
000546
000546
           S2@ SET F 00101 01001 00111 00001;
000547
           SET F 00101 01000 00111 10000 ;
000550
           SET F 00101 01001 00111 00000 ;
           SET F 00101 01000 00111 10000 ;
000551
000552
           SET F 00101 01001 00111 00000 ;
000553
           SET F 00101 01000 00111 10000
           SET F 00101 01001 00111 00000 ;
000554
000555
           SET F 00101 01000 00111 10000 ;
000556
           SET F 00101 01001 00111 00000
000557
           SET F 00101 01000 00111 10000
000560
           SET F 00101 01001 00111 00001 ;
           SET F 00101 01000 00111 10000 ;
000561
           SET F 00101 01001 00111 00000 ;
000562
000563
           SET F 00101 01000 00111 10000
000564
           SET F 00101 01001 00111 00000
000565
           SET F 00101 01000 00111 10000 ;
           SET F 00101 01001 00111 00000
000566
           SET F 00101 01000 00111 10000
000567
           SET F 00101 01001 00111 00000
000570
000571
           SET F 00101 01000 00111 10000
000572
           SET F 00101 01001 00111 00001 ;
           SET F 00101 01000 00111 10000 ;
000573
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000574
           SET F 00101 01001 00111 00000 ;
000575
           SET F 00101 01000 00111 10000 ;
000576
           SET F 00101 01001 00111 00000 ;
0005.77
           SET F 00101 01000 00111 10000 ;
000600
           SET F 00101 01001 00111 00000 ;
000601
           SET F 00101 01000 00111 10000 ;
000602
           SET F 00101 01001 00111 00000 ;
000603
           SET F 00101 01000 00111 10000 ;
000604
           SET F 00101 01001 00111 00001 ;
000605
           SET F 00101 01000 00111 10000 ;
909909
           SET F 00101 01001 00111 00000 ;
000607
           SET F 00101 01000 00111 10000 ;
000610
           SET F 00101 01001 00111 00000 ;
000611
           SET F 00101 01000 00111 10000 ;
000612
           SET F 00101 01001 00111 00000 ;
000613
            SET F 00101 01000 00111 10000 ;
           SET F 00101 01001 00111 00000 ;
000614
000615
           SET F 00101 01000 00111 10000 ;
000616
           SET F 00101 01001 00111 00011 ;
000617
            SET F 00101 01000 00111 10000 ;
000620
           SET F 00101 01001 00111 00000 ;
000621
           SET F 00101 01000 00111 10000 ;
           SET F 00101 01001 00111 00000 ;
000622
000623
           SET F 00101 01000 00111 10000 ;
000624
           SET F 00101 01001 00111 00000 ;
           SET F 00101 01000 00111 10000 ;
000625
000626
           SET F 00101 01001 00111 00000 ;
000627
           SET F 00101 01000 00111 10000 ;
000630
           SET F 00101 01001 00111 00001 ;
000631
           SET F 00101 01000 00111 10000 ;
000632
           SET F 00101 01001 00111 00000;
000633
           SET F 00101 01000 00111 10000 ;
           SET F 00101 01001 00111 00000 ;
000634
           SET F 00101 01000 00111 10000 ;
000635
000636
           SET F 00101 01001 00111 00000 ;
           SET F 00101 01000 00011 10000 ;
000637
           SET F 00101 01001 00011 00000 ;
000640
000641
            SET F 00101 01000 10011 10000 ;
000642
            SET F 00101 01001 11011 00001;
000643
           SET F 00101 01000 11011 00000;
            SET F 00101 01001 11011 10000 ;
000644
000645
            SET F 00101 01000 11011 10000 i
000646
           SET F 00101 01001 11011 00000;
           SET F 00101 01000 11011 00000 ;
SET F 00101 01001 11011 10000 ;
000647
000650
000651
            SET F 00101 01000 11011 10000 ;
            SET F 00101 01001 11011 00000 ;
000652
            SET F 00101 01000 11011 00000 ;
000453
000654
           SET F 00101 01001 11011 10001 ;
000655
            SET F 00101 01000 11011 10000 ;
            SET F 00101 01001 11011 00000 ;
000656
           SET F 00101 01000 11011 00000 ;
SET F 00101 01001 11011 10000 ;
000657
000660
000661
            SET F 00101 01000 11011 10000 ;
000662
            SET F 00101 01001 11011 00000 ;
000663
            SET F 00101 01000 11011 00000 ;
            SET F 00101 01001 11011 10000 ;
000664
           SET F 00101 01000 11011 10000 ;
SET F 00101 01011 11011 00001 ;
000665
000666
```

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```
000667
           SET F 00101 01010 11011 00000 ;
000670
           SET F 00101 01011 11011 10000 ;
000671
           SET F 00101 01010 11011 10000 ;
000672
           SET F 00101 11011 11001 10000
000673
           SET F 00101 11010 11001 10000 ;
000674
           SET F 00101 01011 11011 10000 ;
000675
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
000676
000677
           SET F 00101 11010 11001 10000 ;
000700
           SET F 00101 01011 11011 10001 .
000701
           SET F 00101 01010 11011 10000 ;
000702
           SET F 00101 11011 11001 10000 /
000703
           SET F 00101 11010 11001 10000 ;
000704
           SET F 00101 01011 11011 10000 ;
000705
           SET F 00101 01010 11011 10000 ;
000706
           SET F 00101 11011 11001 10000 ;
000707
           SET F 00101 11010 11001 10000 ;
000710
           SET F 00101 01011 11011 10000 ;
000711
           SET F 00101 01010 11011 10000 ;
000712
           SET F 00100 11011 11001 10001 ;
000713
           SET F 00100 01010 11001 10000 ;
000714
           SET F 00100 01011 11011 10000 ;
000715
           SET F 00100 01010 11011 10000 ;
           SET F 00100 11011 11001 10000 ;
000716
000717
           SET F 00100 01010 11001 10000 ;
000720
           SET F 00100 01011 11011 10000 ;
000721
           SET F 00100 01010 11011 10000 ;
           SET F 00100 11011 11001 10000 ;
000722
000723
           SET F 00100 01010 11001 10000 ;
000724
           SET F 00100 01011 11011 10001 ;
           SET F 00100 01010 11011 10000 ;
000725
           SET F 00100 11011 11001 10000 ;
000726
000727
           SET F 00100 01010 11001 10000 ;
000730
           SET F 00100 01011 11011 10000 ;
           SET F 00100 01010 11011 10000 ;
000731
000732
           SET F 00100 11011 11001 10000;
000733
           SET F 00100 01010 11001 10000 ;
000734
           SET F 00100 01011 11011 10000 ;
000735
           SET F 00100 01010 11011 10000 ;
000736
           SET F 00101 11011 11001 10001;
000737
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
000740
000741
           SET F 00101 01010 11011 10000 ;
000742
           SET F 00101 11011 11001 10000 ;
000743
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
000744
000745
           SET F 00101 01010 11011 10000 ;
000746
           SET F 00101 11011 11001 10000 ;
000747
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10001 ;
000750
000751
           SET F 00101 01010 11011 10000 ;
000752
           SET F 00101 11011 11001 10000 ;
000753
           SET F 00101 11010 11001 10000 ;
000754
           SET F 00101 01011 11011 10000 ;
000755
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
000756
000757
           SET F 00101 11010 11001 10000 ;
000760
           SET F 00101 01011 11011 10000 ;
000761
           SET F 00101 01010 11011 10000 ;
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```
000762
           SET F 00101 00011 11001 10011 ;
000763
           SET F 00101 00010 11001 10000
000764
           SET F 00101 00011 11011 10000 ;
000765
           SET F 00101 00010 11011 10000
000766
           SET F 00101 00011 11001 10000
000767
           SET F 00101 00010 11001 10000
000770
           SET F 00101 00011 11011 10000
000771
           SET F 00101 00010 11011 10000 ;
000772
           SET F 00101 00011 11001 10000
000773
           SET F 00101 00010 11001 10000
           SET F 00101 00011 11011 10001
000774
000775
           SET F 00101 00010 11011 10000
000776
           SET F 00101 00011 11001 10000
000777
           SET F 00101 00010 11001 10000
001000
           SET F 00101 00011 11011 10000
001001
           SET F 00101 00010 11011 10000
001002
           SET F 00101 00011 11001 10000
           SET F 00101 00010 11001 10000
001003
001004
           SET F 00101 00011 11011 10000
001005
           SET F 00101 00010 11011 10000
001006
           SET F 00101 11011 11001 10001 ;
001007
           SET F 00101 11010 11001 10000
001010
           SET F 00101 01011 11011 10000
001011
           SET F 00101 01010 11011 10000
001012
           SET F 00101 11011 11001 10000
001013
           SET F 00101 11010 11001 10000
001014
           SET F 00101 01011 11011 10000 ;
001015
           SET F 00101 01010 11011 10000
001016
           SET F 00101 11011 11001 10000
001017
           SET F 00101 11010 11001 10000
001020
           SET F 00101 01011 11011 10001
001021
           SET F 00101 01010 11011 10000
001022
           SET F 00101 11011 11001 10000
001023
           SET F 00101 11010 11001 10000
001024
           SET F 00101 01011 11011 10000
001025
           SET F 00101 01010 11011 10000
           SET F 00101 11011 11001 10000
001026
001027
           SET F 00101 11010 11001 10000
001030
           SET F 00101 01011 11011 10000
001031
           SET F 00101 01010 11011 10000
001032
           SET F 00101 11011 11001 10001
001033
           SET F 00101 11010 11001 10000
           SET F 00101 01011 11011 10000
001034
001035
           SET F 00101 01010 11011 10000
           SET F 00101 11011 11001 10000
001036
001037
           SET F 00101 11010 11001 10000
001040
           SET F 00101 01011 11011 10000
001041
           SET F 00101 01010 11011 10000
001042
           SET F 00101 11011 11001 10000
001043
           SET F 00101 11010 11001 10000
001044
           SET F 00101 01011 11011 10001
           SET F 00101 01010 11011 10000
SET F 00101 11011 11001 10000
001045
001046
001047
           SET F 00101 11010 11001 10000
001050
           SET F 00101 01011 11011 10000
001051
           SET F 00101 01010 11011 10000
001052
           SET F 00101 11011 11001 10000
001053
           SET F 00101 11010 11001 10000
001054
           SET F 00101 01011 11011 10000
```

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001055	SET F 00101	01010 11011	10000 ;
001056	SET F 00101	11011 11001	10001 ;
001057	SET F 00101	11010 11001	10000 ;
001060	SET F 00101	01011 11011	10000 ;
001061	SET F 00101	01010 11011	10000 ;
001062	SET F 00101	11011 11001	10000 ;
001063	SET F 00101	11010 11001	
001064	SET F 00101	01011 11011	
001065	SET F 00101	01010 11011	
001066	SET F 00101	11011 11001	
001067	SET F 00101	11010 11001	
001070	SET F 00101	01011 11011	
001071	SET F 00101	01010 11011	
001072	SET F 00101	11011 11001	
001073	SET F 00101	11010 11001	
001074	SET F 00101	01011 11011	
001075	SET F 00101	01010 11011	
001076	SET F 00101	11011 11001	
001077	SET F 00101	11010 11001	
001100	SET F 00101	01011 11011	
001101	SET F 00101	01010 11011	
001102	SET F 00101	11011 11001	
001103	SET F 00101	11010 11001	
001104	SET F 00101	01011 11011	9
001105	SET F 00101	01010 11011	
001106	SET F 00101	11011 11001	
001107	SET F 00101	11010 11001	
001110	SET F 00101	01011 11011	
001111	SET F 00101	01010 11011	
001112	SET F 00101	11011 11001	
001113	SET F 00101	11010 11001	
001114	SET F 00101	01011 11011	
001115	SET F 00101	01010 11011	
001116	SET F 00101	11011 11001	
001117	SET F 00101	11010 11001	
001120	SET F 00101	01011 11011	
001121	SET F 00101	01010 11011	
001122	SET F 00101	11011 11001	
001123	SET F 00101	11010 11001	
001124	SET F 00101	01011 11011	
001125	SET F 00101	01010 11011	
001126	SET F 00101	11011 11001	
001127	SET F 00101	11010 11001	
001130	SET F 00101	01011 11011	
001131	SET F 00101	01010 11011	
001132	SET F 00101	11011 11001	
001133	SET F 00101	11010 1100	
001134	SET F 00101	01011 1101:	
001135	SET F 00101	01010 1101	
001136	SET F 00101	11011 1100:	
001137	SET F 00101	11010 1100:	
001140	SET F 00101	01011 1101	
001141	SET F 00101	01010 1101:	
001142	SET F 00101	11011 1100:	
001143	SET F 00101 SET F 00101	11010 11001	
001144		01011 11011	
001145	SET F 00101 SET F 00101	01010 11011	
001148			
001147	SET F 00101	11010 11001	1 10000 ;

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001150	SET	F	00101	01011	11011	10000	i
001151	SET	F	00101	01010	11011	10000	;
001152	SET	F	00101	11011	11001	10001	i
001153	SET	F	00101	11010	11001	10000	i
001154	SET	F	00101	01011	11011	10000	i
001155	SET	F	00101	01010	11011	10000	i
001156	SET	F	00101	11011	11001	10000	;
001157	SET	F	00101	11010	11001	10000	i
001160	SET	F	00101	01011	11011	10000	,
001161	SET	F	00101	01010	11011	10000	,
001162	SET	F	00101	11011	11001	10000	;
001163	SET	F	00101	11010	11001	10000	i
001164	SET	F	00101	01011	11011	10001	,
001165	SET	F	00101	01010	11011	10000	;
001166	SET	F	00101	11011	11001	10000	;
001167	SET	F	00101	11010	11001	10000	,
001170	SET	F	00101	01011	11011	10000	;
001171	SET	F	00101	01010	11011	10000	;
001172	SET	F	00101	11011	11001	10000	,
001173	SET	F	00101	11010	11001	10000	;
001174	SET	F	00101	01011	11011	10000	;
001175	SET	F	00101	01010	11011	10000	
001176	SET	F	00101	11011	11001	10001	i
001177	SET	F	00101	11010	11001		i
001200		F				10000	i
001201	SET	F	00101	01011	11011	10000	i
	SET		00101	01010	11011	10000	i
001202	SET	F	00101	11011	11001	10000	i
001203	SET	F	00101	11010	11001	10000	i
001204	SET	F	00101	01011	11011	10000	i
001205	SET	F	00101	01010	11011	10000	i
001206	SET	F	00101	11011	11001	10000	i
001207	SET	F	00101	11010	11001	10000	i
001210	SET	F	00101	01011	11011	10001	i
001211	SET	F	00101	01010	11011	10000	i
001212	SET	F	00101	11011	11001	10000	i
001213	SET	F	00101	11010	11001	10000	i
001214	SET	F	00101	01011	11011	10000	i
001215	SET	F	00101	01010	11011	10000	i
001216	SET	F	00101	11011	11001	10000	,
001217	SET	F	00101	11010	11001	10000	,
001220	SET	F	00101	01011	11011	10000	,
001221	SET	F	00101	01010	11011	10000	i
001222	SET	F	00101	11011	11001	10001	i
001223	SET	F	00101	11010	11001	10000	i
001224	SET	F	00101	01011	11011	10000	,
001225	SET	F	00101	01010	11011	10000	i
001226	SET	F	00101	11011	11001	10000	i
001227	SET	F	00101	11010	11001	10000	į
001230	SET	F	00101	01011	11011	10000	i
001231	SET	F	00101	01010	11011	10000	į
001232	SET	F	00101	11011	11001	10000	i
001233	SET	F	00101	11010	11001	10000	į
001234	SET	F	00101	01011	11011	10001	i
001235	SET	F	00101	01010	11011	10000	i
001236	SET	F	00101	11011	11001	10000	i
001237	SET	F	00101	11010	11001	10000	,
001240	SET	F	00101	01011	11011	10000	i
001241	SET	F	00101	01010	11011	10000	i
001242	SET	F	00101	11011	11001	10000	i

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001243	SET F 00101	11010 11	001 10000 ;
001244	SET F 00101	01011 11	011 10000 ;
001245	SET F 00101	01010 11	011 10000 ;
001246	SET F 00101		001 10001 /
001247	SET F 00101		001 10000 ;
001250	SET F 00101		011 10000 ;
001251	SET F 00101		011 10000 ;
001252	SET F 00101		001 10000 ;
001253	SET F 00101		
001254	SET F 00101		
001255	SET F 00101		
001256	SET F 00101		
001257	SET F 00101		
001260	SET F 00101		
001261	SET F 00101		011 10000 ;
001262	SET F 00101		001 10000 ;
001263	SET F 00101		001 10000 ;
001264	SET F 00101		011 10000 ;
001265	SET F 00101		011 10000 :
001266	SET F 00101		001 10000 ;
001267	SET F 00101		001 10000 ;
001270	SET F 00101		011 10000 ;
001271	SET F 00101	01010 11	011 10000 ;
001272	SET F 00101	11011 11	001 10011 ;
001273	SET F 00101	11010 11	001 10000 ;
001274	SET F 00101	01011 11	011 10000 ;
001275	SET F 00101	01010 11	011 10000 ;
001276	SET F 00101	11011 11	001 10000 ;
001277	SET F 00101	11010 11	001 10000 ;
001300	SET F 00101	01011 11	011 10000 ;
001301	SET F 00101	01010 11	011 10000 ;
001302	SET F 00101	11011 11	001 10000 ;
001303	SET F 00101		001 10000 ;
001304	SET F 00101		011 10001 /
001305	SET F 00101		011 10000 ;
001306	SET F 00101		001 10000 ;
001307	SET F 00101		001 10000 ;
001310	SET F 00101		011 10000 ;
001311	SET F 00101		011 10000 ;
001312	SET F 00101		001 10000 ;
001313	SET F 00101		001 10000 ;
001314	SET F 00101		
001315	SET F 00101		
001316	SET F 00101		
001317	SET F 00101		
001320			011 10000 ;
001321			011 10000 ;
001322	SET F 00101		001 10000 ;
001323	SET F 00101		001 10000 ;
001324	SET F 00101		011 10000 ;
001325	SET F 00101		011 10000 ;
001326	SET F 00101		001 10000 ;
001327	SET F 00101		001 10000 ;
001330	SET F 00101		011 10001 ;
001331	SET F 00101		011 10000 i
001332	SET F 00101		001 10000 ;
001333	SET F 00101		001 10000 ;
001334	SET F 00101		011 10000 ;
001335	SET F 00101	01010 11	011 10000 ;

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```
001336
           SET F 00101 11011 11001 10000 ;
001337
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000
001340
001341
           SET F 00101 01010 11011 10000
           SET F 00101 11011 11001 10001
001342
001343
           SET F 00101 11010 11001 10000
001344
           SET F 00101 01011 11011 10000
           SET F 00101 01010 11011 10000
001345
001346
           SET F 00101 11011 11001 10000 ;
001347
           SET F 00101 11010 11001 10000
001350
           SET F 00101 01011 11011 10000
           SET F 00101 01010 11011 10000 ;
001351
001352
           SET F 00101 11011 11001 10000
001353
           SET F 00101 11010 11001 10000
001354
            SET F 00101 01011 11011 10001 ;
001355
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
001356
001357
           SET F 00101 11010 11001 10000
           SET F 00101 01011 11011 10000 ;
001360
           SET F 00101 01010 11011 10000 ;
001361
           SET F 00101 11011 11001 10000 ;
001362
001363
            SET F 00101 11010 11001 10000 i
           SET F 00101 01011 11011 10000 ;
SET F 00101 01010 11011 10000 ;
001364
001365
001366
            SET F 00101 11011 11001 10001 ;
            SET F 00101 11010 11001 10000
001367
001370
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
001371
001372
            SET F 00101 11011 11001 10000
           SET F 00101 11010 11001 10000 ;
001373
           SET F 00101 01011 11011 10000 ;
001374
           SET F 00101 01010 11011 10000 ;
001375
001376
            SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 F
SET F 00101 01011 11011 10001 F
001377
001400
001401
            SET F 00101 01010 11011 10000 ;
001402
            SET F 00101 11011 11001 10000
            SET F 00101 11010 11001 10000 ;
001403
001404
            SET F 00101 01011 11011 10000 ;
            SET F 00101 01010 11011 10000 2
SET F 00101 11011 11001 10000 2
001405
001406
001407
            SET F 00101 11010 11001 10000 ;
001410
            SET F 00101 01011 11011 10000 ;
001411
            SET F 00101 01010 11011 10000
            SET F 00101 11011 11001 10001 a
001412
            SET F 00101 11010 11001 10000 ;
001413
001414
            SET F 00101 01011 11011 10000 ;
            SET F 00101 01010 11011 10000 .
001415
            SET F 00101 11011 11001 10000 ;
001416
001417
            SET F 00101 11010 11001 10000 ;
            SET F 00101 01011 11011 10000
001420
001421
            SET F 00101 01010 11011 10000
            SET F 00101 11011 11001 10000
001422
001423
            SET F 00101 11010 11001 10000 ;
            SET F 00101 01011 11011 10001
001424
            SET F 00101 01010 11011 10000
001425
001426
            SET F 00101 11011 11001 10000
            SET F 00101 11010 11001 10000 ;
SET F 00101 01011 11011 10000 ;
001427
001430
```

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001431	SET F 00101	01010	11011	10000 ;
001432	SET F 00101	11011	11001	10000 ;
001433	SET F 00101	11010	11001	10000 ;
001434	SET F 00101	01011	11011	10000 ;
001435	SET F 00101	01010	11011	10000 ;
001436	SET F 00101	11011	11001	
001437		11010	11001	10000 ;
001440	SET F 00101	01011	11011	10000 ;
001441	SET F 00101	01010	11011	10000 ;
001442	SET F 00101	11011	11001	10000 ;
001443	SET F 00101	11010	11001	10000 ;
001444	SET F 00101	01011	11011	10000 ;
001445	SET F 00101	01010	11011	10000 ;
001446	SET F 00101	11011	11001	10000 ;
001447	SET F 00101	11,010	11001	10000 ;
001450	SET F 00101	012011	11011	10001 ,
001451	SET F 00101	01010	11011	10000 ;
001452	SET F 00101	11011	11001	10000 7
001453	SET F 00101	11010	11001	
001454	SET F 00101	01011	11011	10000 ;
001455	SET F 00101	01010	11011	10000 ;
001456	SET F 00101	11011	11001	10000 ;
001457	SET F 00101	11010	11001	10000 ;
001460	SET F 00101	01011	11011	10000 ;
001461	SET F 00101	01010	11011	10000 ;
001462	SET F 00101	11011	11001	10001.;
001463	SET F 00101	11010	11001	10000 ;
001464	SET F 00101	01011	11011	10000 ;
001465	SET F 00101	01010	11011	10000 ;
001466	SET F 00101	11011	11001	
001467	SET F 00101	11010	11001	
001470				
		01011	11011	10000 ;
001471	SET F 00101	01010	11011	10000 ;
001472	SET F 00101	11011	11001	10000 /
001473	SET F 00101	11010	11001	10000 ;
001474	SET F 00101	01011	11011	10001 ;
001475	SET F 00101	01010	11011	10000 /
001476	SET F 00101	11011	11001	10000 ;
001477	SET F 00101	11010	11001	10000 /
001500	SET F 00101	01011	11011	10000 ;
001501	SET F 00101	01010	11011	10000 ;
001502	SET F 00101	11011	11001	10000 ;
001503	SET F 00101	11010	11001	10000;
001504	SET F 00101	01011	11011	10000 ;
001505	SET F 00101	01010	11011	10000 ;
001506	SET F 00101	11011	11001	
001507		11010	11001	10000 ;
001510	SET F 00101	01011	11011	10000 ;
001511	SET F 00101	01010	11011	10000 ;
001512	SET F 00101	11011	11001	10000 ;
001513	SET F 00101	11010	11001	10000 ;
001514	SET F 00101	01011	11011	10000 ;
001515	SET F 00101	01010	11011	10000 ;
001516	SET F 00101	11011	11001	10000 ;
001517	SET F 00101	11010	11001	10000 ;
001520	SET F 00101	01011	11011	10001 ;
001521	SET F 00101	01010	11011	10000;
001522	SET F 00101	11011	11001	10000 ;
001523	SET F 00101	11010	11001	10000 ;

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```
001524
           SET F 00101 01011 11011 10000 ;
001525
           SET F 00101 01010 11011 10000 ;
001526
           SET F 00101 11011 11001 10000;
001527
           SET F 00101 11010 11001 10000;
           SET F 00101 01011 11011 10000 ;
001530
001531
           SET F 00101 01010 11011 10000 ;
001532
           SET F 00101 11011 11001 10001 .
001533
           SET F 00101 11010 11001 10000 .
           SET F 00101 01011 11011 10000 ;
001534
001535
           SET F 00101 01010 11011 10000 ;
001536
           SET F 00101 11011 11001 10000 ;
001537
           SET F 00101 11010 11001 10000 ;
001540
           SET F 00101 01011 11011 10000 ;
001541
           SET F 00101 01010 11011 10000 ;
001542
           SET F 00101 11011 11001 10000 ;
001543
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10001 ;
001544
001545
           SET F 00101 01010 11011 10000 ;
001546
           SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 ;
001547
001550
           SET F 00101 01011 11011 10000 ;
001551
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
001552
001553
           SET F 00101 11010 11001 10000 ;
001554
           SET F 00101 01011 11011 10000 ;
001555
           SET F 00101 01010 11011 10000 ;
001556
           SET F 00101 11011 11001 10001 ;
001557
           SET F 00101 11010 11001 10000 /
001560
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
001561
001562
           SET F 00101 11011 11001 10000;
001563
           SET F 00101 11010 11001 10000 ;
001564
           SET F 00101 01011 11011 10000 ;
001565
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
001566
001567
           SET F 00101 11010 11001 10000 ;
001570
           SET F 00101 01011 11011 10001 ;
001571
           SET F 00101 01010 11011 10000 ;
001572
           SET F 00101 11011 11001 10000 ;
001573
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
001574
001575
           SET F 00101 01010 11011 10000 ;
001576
           SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 ;
001577
           SET F 00101 01011 11011 10000 ;
001600
001601
           SET F 00101 01010 11011 10000 ;
001602
           SET F 00101 11011 11001 10011 ;
001603
           SET F 00101 11010 11001 10000 ;
001604
           SET F 00101 01011 11011 10000 ;
001605
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
001606
001607
           SET F 00101 11010 11001 10000 ;
001610
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
001611
001612
           SET F 00101 11011 11001 10000 ;
001613
           SET F 00101 11010 11001 10000
           SET F 00101 01011 11011 10001
001614
001615
           SET F 00101 01010 11011 10000 7
           SET F 00101 11011 11001 10000 ;
001616
```

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```
001617
           SET F 00101 11010 11001 10000 ;
001620
           SET F 00101 01011 11011 10000 ;
001621
           SET F 00101 01010 11011 10000 ;
001622
           SET F 00101 11011 11001 10000
001623
           SET F 00101 11010 11001 10000 .
001624
           SET F 00101 01011 11011 10000 ;
001625
           SET F 00101 01010 11011 10000 ;
001626
           SET F 00101 11011 11001 10001
001627
           SET F 00101 11010 11001 10000 ;
001630
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
001631
001632
           SET F 00101 11011 11001 10000 ;
001633
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
001634
001635
           SET F 00101 01010 11011 10000 ;
001636
           SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 ;
001637
           SET F 00101 01011 11011 10001 ;
001640
           SET F 00101 01010 11011 10000 ;
001641
001642
           SET F 00101 11011 11001 10000;
001643
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
001644
001645
           SET F 00101 01010 11011 10000 ;
001646
           SET F 00101 11011 11001 10000;
           SET F 00101 11010 11001 10000 ;
001647
001650
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
001651
001652
           SET F 00101 11011 11001 10001 ;
           SET F 00101 11010 11001 10000 ;
001653
001654
           SET F 00101 01011 11011 10000 ;
001655
           SET F 00101 01010 11011 10000 ;
001656
           SET F 00101 11011 11001 10000 ;
001657
           SET F 00101 11010 11001 10000;
001660
           SET F 00101 01011 11011 10000 ;
001661
           SET F 00101 01010 11011 10000 ;
001662
           SET F 00101 11011 11001 10000 ;
001663
           SET F 00101 11010 11001 10000 ;
001664
           SET F 00101 01011 11011 10001 ;
001665
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
001666
001667
           SET F 00101 11010 11001 10000 ;
001670
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
001671
001672
           SET F 00101 11011 11001 10000;
001673
           SET F 00101 11010 11001 10000 ;
001674
           SET F 00101 01011 11011 10000 ;
001675
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10001 ;
001676
001677
           SET F 00101 11010 11001 10000 ;
001700
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
001701
           SET F 00101 11011 11001 10000 ;
001702
001703
           SET F 00101 11010 11001 10000 :
001704
           SET F 00101 01011 11011 10000
001705
           SET F 00101 01010 11011 10000 ;
001706
           SET F 00101 11011 11001 10000 ;
001707
           SET F 00101 11010 11001 10000 ;
001710
           SET F 00101 01011 11011 10001 A
001711
           SET F 00101 01010 11011 10000 ;
```

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001712	SET	F	00101	11011	11001	10000 ;	
001713	SET	F	00101	11010	11001	10000 ;	
001714	SET	F	00101	01011	11011		
001715	SET	F	00101	01010	11011	10000 ;	
001716	SET	F	00101	11011	11001	10000 ;	
001717	SET	F	00101	11010	11001	10000 i	
001720	SET	F	00101	01011	11011	10000 ;	
001721	SET	F	00101	01010	11011	10000 /	
001722	SET	F	00101	11011	11001	10001 ;	
001723	SET	F	00101	11010	11001	10 0 0 0 0	
		F					
001724	SET		00101	01011	11011	10000 ;	
001725	SET	F	00101	01010	11011	10000 ;	
001726	SET	F	00101	11011	11001	10000 ;	
001727	SET	F	00101	11010	11001	10000 i	
001730	SET	F	00101	01011	11011	10000 ;	
001731	SET	F	00101	01010	11011	10000 ;	
001732	SET	F	00101	11011	11001	10000 ;	
001733	SET	F	00101	11010	11001	10000 ;	
001734	SET	F	00101	01011	11011	10001 ;	
001735	SET	F	00101	01010	11011	10000 ;	
001736	SET	F	00101	11011	11001	10000 /	
001737	SET	F	00101	11010	11001	10000 ;	
001740	SET	F	00101	01011	11011	10000 /	
001741	SET	F	00101	01010	11011	10000 ;	
001742	SET	F	00101	11011	11001	10000 ;	
001743	SET	F	00101	11010	11001	10000 ;	
001744		F					
	SET		00101	01011	11011	10000 ;	
001745	SET	F	00101	01010	11011	10000 ;	
001746	SET	F	00101	11011	11001	10011 ;	
001747	SET	F	00101	11010	11001	10000 ;	
001750	SET	F	00101	01011	11011	10000 ;	
001751	SET	F	00101	01010	11011	10000 ;	
001752	SET	F	00101	11011	11001	10000 ;	
001753	SET	F	00101	11010	11001	10000 ;	
001754	SET	F	00101	01011	11011	10000 ;	
001755		F					
	SET		00101	01010	11011		
001756	SET	F	00101	11011	11001	10000 ;	
001757	SET	F	00101	11010	11001	10000 ;	
001760	SET	F	00101	01011	11011	10001 ;	
001761	SET	F	00101	01010	11011	10000 ;	
001762	SET	F	00101	11011	11001	10000 ;	
001763	SET	F	00101	11010	11001	10000 ;	
001764	SET	F	00101	01011	11011	10000 ;	
001765	SET	F	00101	01010	11011	10000 ;	
001766	SET	F	00101	11011	11001	10000 ;	
001767	SET	F	00101	11010	11001	10000 ;	
001770	SET	F	00101	01011	11011	10000 ;	
001771	SET	F	00101	01010	11011	10000 ;	
001772	SET	F	00101	11011	11001	10001 ;	
001773	SET	F	00101	11010	11001	10000 ;	
001774	SET	F	00101	01011	11011	10000 ;	
001775	SET	F	00101	01010	11011	10000 ;	
001776	SET	F	00101	11011	11001	10000 ;	
001777	SET	F	00101	11010	11001	10000 /	
002000	SET	F	00101	01011	11011	10000 ;	
002000	SET	F	00101	01010	11011		
		F					
002002	SET	100	00101	11011	11001	10000 /	
002003	SET	F	00101	11010	11001	10000 ;	
002004	SET	F	00101	01011	11011	10001 ;	

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002005	SET	F	00101	01010	11011	10000	ì
002006	SET	F	00101	11011	11001	10000	i
002007	SET	F	00101	11010	11001	10000	i
002010	SET	F	00101	01011	11011	10000	į
002011	SET	F	00101	01010	11011	10000	,
002012	SET	F	00101	11011	11001	10000	į
002013	SET	F	00101	11010	11001	10000	;
002014	SET	F	00101	01011	11011	10000	i
002015		F	00101	01010	11011		
002016	SET	F	00101	11011	11001	10000	i
	SET					10001	i
002017	SET	F	00101	11010	11001	10000	,
002020	SET	F	00101	01011	11011	10000	î
002021	SE1	F	00101	01010	11011	10000	,
002022	SET	F	00101	11011	11001	10000	i
002023	SET	F	00101	11010	11001	10000	i
002024	SET	F	00101	01011	11011	10000	i
002025	SET	F	00101	01010	11011	10000	i
002026	SET	F	00101	11011	11001	10000	;
002027	SET	F	00101	11010	11001	10000	i
002030	SET	F	00101	01011	11011	10001	,
002031	SET	F	00101	01010	11011	10000	;
002032	SET	F	00101	11011	11001	10000	;
002033	SET	F	00101	11010	11001	10000	
002034			00101	01011	11011		,
	SET	F				10000	i
002035	SET	F	00101	01010	11011	10000	i
002036	SET	F	00101	11011	11001	10000	j
002037	SET	F	00101	11010	11001	10000	,
002040	SET	F	00101	01011	11011	10000	i
002041	SET	F	00101	01010	11011	10000	i
002042	SET	F	00101	11011	11001	10001	;
002043	SET	F	60101	11010	11001	10000	j
002044	SET	F	00101	01011	11011	10000	;
002045	SET	F	00101	01010	11011	10000	i
002046	SET	F	00101	11011	11001	10000	i
002047	SET	F	00101	11010	11001	10000	,
002050	SET	F	00101	01011	11011	10000	
002051	SET	F	00101	01010	11011	10000	į
002052		F					;
	SET		00101	11011	11001	10000	i
002053	SET	F	00101	11010	11001	10000	,
002054	SET	F	00101	01011	11011	10001	,
002055	SET	F	00101	01010	11011	10000	,
002056	SET	F	00101	11011	11001	10000	,
002057	SET	F	00101	11010	11001	10000	i
002060	SET	F	00101	01011	11011	10000	;
002061	SET	F	00101	01010	11011	10000	i
002062	SET	F	00101	11011	11001	10000	i
002063	SET	F	00101	11010	11001	10000	;
002064	SET	F	00101	01011	11011	10000	;
002065	SET	F	00101	01010	11011	10000	;
002066	SET	F	00101	11011	11001	10001	
002067		F	00101	11010			
002067	SET				11001	10000	i
	SET	F	00101	01011	11011	10000	,
002071	SET	F	00101	01010	11011	10000	,
002072	SET	F	00101	11011	11001	10000	i
002073	SET	F	00101	11010	11001	10000	i
002074	SET	F	00101	01011	11011	10000	,
002075	SET	F	00101	01010	11011	10000	i
002076	SET	F	00101	11011	11001	10000	į
002077	SET	F	00101	11010	11001	10000	,

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002100	SET F	00101	01011	11011	10001;
002101	SET F	00101	01010	11011	10000 ;
002102	SET F	00101	11011	11001	10000 ;
002103	SET F	00101	11010	11001	10000 ;
002104	SET F	00101	01011	11011	10000 ;
002105	SET F	00101	01010	11011	10000 ;
002106	SET F	00101	11011	11001	10000 ;
002107	SET F	00101	11010	11001	10000 ;
002110	SET F	00101	01011	11011	10000 ;
002111	SET F	00101	01010	11011	10000 ;
002112	SET F	00101	11011	11001	10011;
002113	SET F	00101	11010	11001	10000;
002114	SET F	00101	01011	11011	10000 ;
002115	SET F	00101	01010	11011	10000 ;
002116	SET F	00101	11011	11001	10000 ;
002117	SET F	00101	11010	11001	10000 ;
002120	SET F	00101	01011	11011	10000 ;
002121	SET F	00101	01010	11011	10000 ;
002122	SET F	00101	11011	11001	10000 ;
002123	SET F	00101	11010	11001	10000 ;
002124	SET F	00101	01011	11011	10001 ;
002125	SET F	00101	01010	11011	10000 ;
002125	SET F	00101	11011	11001	
002125	SET F	00101	11010	11001	
		00101	01011		
002130		20,000 000 20,000	3000 5000	11011	
002131	SET F	00101	01010	11011	10000 /
002132	SET F	00101	11011	11001	10000 ;
002133	SET F	00101	11010	11001	10000 ;
002134	SET F	00101	01011	11011	10000 ;
002135	SET F	00101	01010	11011	10000 ;
002136	SET F	00101	11011	11001	10001 ;
002137	SET F	00101	11010	11001	10000 ;
002140	SET F	00101	01011	11011	10000 ;
002141	SET F	00101	01010	11011	10000 ;
002142	SET F	00101	11011	11001	10000;
002143	SET F	00101	11010	11001	10000 ;
002144	SET F	00101	01011	11011	10000 ;
002145	SET F	00101	01010	11011	10000 ;
002146	SET F	00101	11011	11001	10000 ;
002147	SET F	00101	11010	11001	10000 ;
002150	SET F	00101	01011	11011	10001 ;
002151	SET F	00101	01010	11011	10000 ;
002152	SET F	00101	11011	11001	10000 i
002153	SET F	00101	11010	11001	10000 ;
002154	SET F	00101	01011	11011	10000 ;
002155	SET F	00101	01010	11011	10000 ;
002156	SET F	00101	11011	11001	10000 ;
002157	SET F	00101	11010	11001	10000 ;
002160	SET F	00101	01011	11011	10000 ;
002161	SET F	00101	01010	11011	10000 ;
002162	SET F	00101	11011	11001	10001 /
002163	SET F	00101	11010	11001	10000 ;
002164	SET F	00101	01011	11011	10000 ;
002165	SET F	00101	01010	11011	10000 ;
002166	SET F	00101	11011	11001	10000 ;
002167	SET F	00101	11010	11001	10000 ;
002170	SET F	00101	01011	11011	10000 ;
002171	SET F	00101	01010	11011	10000
002172	SET F	00101	11011	11001	10000 ;

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```
SET F 00101 11010 11001 10000 ;
002173
002174
           SET F 00101 01011 11011 10001
002175
           SET F 00101 01010 11011 10000 ;
002176
           SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 ;
002177
002200
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
002201
002202
           SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 ;
002203
002204
           SET F 00101 01011 11011 10000 ;
002205
           SET F 00101 01010 11011 10000 ;
002206
           SET F 00101 11011 11001 10001 ;
           SET F 00101 11010 11001 10000
002207
           SET F 00101 01011 11011 10000 ;
002210
002211
           SET F 00101 01010 11011 10000 ;
002212
           SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 ;
002213
002214
           SET F 00101 01011 11011 10000 ;
002215
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
002216
           SET F 00101 11010 11001 10000;
002217
002220
           SET F 00101 01011 11011 10001 ;
           SET F 00101 01010 11011 10000 ;
002221
           SET F 00101 11011 11001 10000 ;
002222
           SET F 00101 11010 11001 10000 ;
002223
002224
           SET F 00101 01011 11011 10000 ;
002225
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
002226
           SET F 00101 11010 11001 10000 ;
002227
           SET F 00101 01011 11011 10000 ;
002230
           SET F 00101 01010 11011 10000 ;
002231
           SET F 00101 11011 11001 10001 ;
002232
002233
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
SET F 00101 01010 11011 10000 ;
002234
002235
002236
           SET F 00101 11011 11001 10000 ;
           SET F 00101 11010 11001 10000 ;
002237
           SET F 00101 01011 11011 10000 ;
002240
           SET F 00101 01010 11011 10000 ;
002241
002242
           SET F 00101 11011 11001 10000;
        SET F 00101 11010 11001 10000 ;
002243
           SET F 00101 01011 11011 10001 ;
002244
           SET F 00101 01010 11011 10000 ;
002245
002246
           SET F 00101 11011 11001 10000 ;
002247
           SET F 00101 11010 11001 10000;
           SET F 00101 01011 11011 10000 ;
002250
           SET F 00101 01010 11011 10000 ;
002251
002252
           SET F 00101 11011 11001 10000;
002253
           SET F 00101 11010 11001 10000 ;
002254
           SET F 00101 01011 11011 10000 ;
002255
           L2 @ SET F 00101 01010 11011 10000 ;
002256
002256
                      IF SWITCH EQ 7 THEN GOTO LOOP ;
                      SET START 0 ;
002260
002261
                      SET MAJOR 1, L1 ;
                      SET MINOR 1, S1, L1 ;
002262
002263
                      ENABLE TEST /
                                                    REM 1, VDD - B ;
002264
002264
                      FORCE VF2 V1, RNG3;
                                                    REM VDD - A
                                      Page 23
                                                                   615 0552 401
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```
002265
                      SET START 160 ;
002266
                      SET MAJOR 1, L2 ;
                      SET MINOR 1, S2, L2 ;
002267
002270
                     ENABLE TEST ;
                                                    REM 2, VDD - A ;
002271
002271
                      AT O ;
002272
                      INSERT HDLP2 ;
                                                    REM SECOND L. M. LOAD 1000-1999 ;
002272
                   REM HDL MOS SCALER PATTERN LOAD 2 'HDLP2' 6/20/74.
002272
                   CREATED BY H. S. GILL.;
002272
           ENABLE DB, MB ;
002272
           S3@ SET F 00101 11011 11001 10000 ;
002273
           SET F 00101 11010 11001 10000;
002274
           SET F 00101 01011 11011 10000 ;
002275
           SET F 00101 01010 11011 10000 ;
002276
           SET F 00101 11011 11001 10000 ;
007777
           SET F 00101 11010 11001 10000;
002300
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
SET F 00101 11011 11001 10000 ;
002301
002302
           SET F 00101 11010 11001 10000 ;
002303
002304
           SET F 00101 01011 11011 10001;
002305
           SET F 00101 01010 11011 10000 ;
002306
           SET F 00101 11011 11001 10000 ;
002307
           SET F 00101 11010 11001 10000;
           SET F 00101 01011 11011 10000 ;
002310
           SET F 00101 01010 11011 10000 ;
002311
           SET F 00101 11011 11001 10000;
002312
002313
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
002314
002315
           SET F 00101 01010 11011 10000 ;
002316
           SET F 00101 11011 11001 10001;
002317
           SET F 00101 11010 11001 10000 ;
002320
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
002321
           SET F 00101 11011 11001 10000;
002322
002323
           SET F 00101 11010 11001 10000 ;
002324
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
002325
           SET F 00101 11011 11001 10000;
002326
002327
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10001 ;
002330
           SET F 00101 01010 11011 10000 ;
002331
002332
           SET F 00101 11011 11001 10000;
           SET F 00101 11010 11001 10000 ;
002333
           SET F 00101 01011 11011 10000 ;
002334
002335
           SET F 00101 01010 11011 10000 ;
002336
           SET F 00101 11011 11001 10000;
           SET F 00101 11010 11001 10000 ;
SET F 00101 01011 11011 10000 ;
002337
002340
           SET F 00101 01010 11011 10000;
002341
           SET F 00101 11011 11001 10001 ;
002342
           SET F 00101 11010 11001 10000 ;
002343
002344
           SET F 00101 01011 11011 10000 ;
002345
           SET F 00101 01010 11011 10000 ;
002346
           SET F 00101 11011 11001 10000;
002347
           SET F 00101 11010 11001 10000 ;
           SET F 00101 01011 11011 10000 ;
002350
002351
           SET F 00101 01010 11011 10000 ;
           SET F 00101 11011 11001 10000 ;
002352
                                                                   615 0552 401
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002353	SET F	00101	11010	11001	10000	;
002354	SET F	00101	01011	11011	10001	,
002355	SET F	00101	01010	11011	10000	i
002356	SET F	00101	11011	11001	10000	,
002357	SET F	00101	11010	11001	10000	
002360	SET F		01011	11011	10000	
002361						,
			01010	11011	10000	i
002362	SET F	00101	11011	11001	10000	,
002363	SET F		11010	11001	10000	i
002364	SET F		01011	11011	10000	,
002365	SET F	00101	01010	11011	10000	i
002366	SET F	00101	11011	11001	10001	i
002367	SET F	00101	11010	11001	10000	,
002370	SET F	00101	01011	11011	10000	;
002371	SET F	00101	01010	11011	10000	,
002372	SET F		11011	11001	10000	į
002373	SET F		11010	11001	10000	
002374		00101	01011			i
	SET F			11011	10000	i
002375	SET F	00101	01010	11011	10000	,
002376	SET F		11011	11001	10000	i
002377	SET F		11010	11001	10000	i
002400	SET F	00101	01011	11011	10001	i
002401	SET F	00101	01010	11011	10000	i
002402	SET F	00101	11011	11001	10000	i
002403	SET F	00101	11010	11001	10000	j
002404	SET F		01011	11011	10000	i
002405	SET F		01010	11011	10000	
002406	SET F		11011	11001	10000	i
002408	SET F				Control of Control	i
			11010	11001	10000	i
002410	SET F		01011	11011	10000	i
002411	SET F		01010	11011	10000	i
002412	SET F		11011	11001	10001	,
002413	SET F	00101	11010	11001	10000	,
002414	SET F	00101	01011	11011	10000	i
002415	SET F	00101	01010	11011	10000	i
002416	SET F	00101	11011	11001	10000	i
002417	SET F	00101	11010	11001	10000	i
002420	SET F	00101	01011	11011	10000	;
002421	SET F		01010	11011	10000	;
002422	SET F		11011	11001	10000	;
002423	SET F		11010	11001	10000	
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				11011	10001	i
002425	SET F		01010	11011	10000	i
002426	SET F		11011	11001	10000	i
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002437	SET F		11010	11001	10000	;
002440	SET F		01011	11011	10000	
002441	SET F		01010	11011	10000	,
002442	SET F		11011	11001	10000	,
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002444	SET F		01011	11011	10000	ì
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002446	SET F 0010	1 11011 11	001 10000 ;
002447	SET F 0010	1 11010 11	001 10000 ;
002450	SET F 0010	1 01011 11	011 10001 ;
002451	SET F 0010	1 01010 11	011 10000 ;
002452	SET F 0010	1 11011 11	001 10000 ;
002453	SET F 0010	1 11010 11	.001 10000 ;
002454	SET F 0010	1 01011 11	011 10000 ;
002455	SET F 0010	1 01010 11	011 10000 ;
002456	SET F 0010	1 11011 11	001 10000 ;
002457	SET F 0010	1 11010 11	001 10000 ;
002460	SET F 0010	1 01011 11	011 10000 ;
002461	SET F 0010	1 01010 11	011 10000 ;
002462	SET F 0010	1 11011 11	001 10001 ;
002463	SET F 0010	1 11010 11	001 10000 ;
002464	SET F 0010		011 10000 ;
002465	SET F 0010		011 10000 ;
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002467	SET F 0010		001 10000 ;
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002473	SET F 0010		001 10000 ;
002474	SET F 0010		011 10001 /
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002477	SET F 0010		001 10000 ;
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002504	SET F 0010		011 10000 /
002505	SET F 0010		011 10000 ;
002506	SET F 0010		1001 10001 ;
002507	SET F 0010	1 11010 11	1001 10000 ;
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002511	SET F 0010	1 01010 11	011 10000 ;
002512	SET F 0010	1 11011 11	001 10000 ;
002513	SET F 0010	1 11010 11	001 10000 ;
002514	SET F 0010	1 01011 11	011 10000 ;
002515	SET F 0010	1 01010 11	011 10000 ;
002516	SET F 0010	1 11011 11	001 10000 ;
002517	SET F 0010	1 11010 11	001 10000 ;
002520	SET F 0010	1 01011 11	011 10001 ;
002521	SET F 0010	1 01010 11	011 10000 ;
002522	SET F 0010	1 11011 11	001 10000 ;
002523	SET F 0010	1 11010 11	001 10000 ;
002524	SET F 0010	1 01011 11	011 10000 ;
002525	SET F 0010	1 01010 11	011 10000 ;
002526	SET F 0010	1 11011 11	10000 ;
002527	SET F 0010	1 11010 11	1000 ;
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002531	SET F 0010		1011 10000 ;
002532	SET F 0010		1001 10001 ;
002533	SET F 0010		1001 10000 ;
002534	SET F 0010		011 10000 ;
002535	SET F 0010		011 10000 ;
002536	SET F 0010		1001 10000 ;
002537	SET F 0010		1001 10000 ;
002540	SET F 0010	1 01011 11	1011 10000 ;

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002542 SET F 00101 01010 11011 10000 ; 002543 SET F 00101 11010 11001 10000 ; 002544 SET F 00101 01011 11011 10001 ; 002545 SET F 00101 01011 11011 10000 ; 002546 SET F 00101 01011 11011 10000 ; 002547 SET F 00101 11010 11001 10000 ; 002548 SET F 00101 11010 11001 10000 ; 002549 SET F 00101 01010 11011 10000 ; 002550 SET F 00101 01010 11011 10000 ; 002551 SET F 00101 01010 11011 10000 ; 002552 SET F 00101 01010 11011 10000 ; 002553 SET F 00101 11011 11001 10000 ; 002554 SET F 00101 11011 11001 10000 ; 002555 SET F 00101 11010 11011 10000 ; 002556 SET F 00101 01010 11011 10000 ; 002557 SET F 00101 01010 11011 10000 ; 002556 SET F 00101 11010 11001 10000 ; 002556 SET F 00101 01011 11011 10000 ; 002561 SET F 00101 01011 11011 10000 ; 002562 SET F 00101 01011 11011 10000 ; 002563 SET F 00101 01011 11011 10000 ; 002564 SET F 00101 01011 11011 10000 ; 002565 SET F 00101 01011 11011 10000 ; 002566 SET F 00101 01011 11011 10000 ; 002567 SET F 00101 01010 11011 10000 ; 002568 SET F 00101 01010 11011 10000 ; 002569 SET F 00101 01010 11011 10000 ; 002560 SET F 00101 01010 11011 10000 ; 002561 SET F 00101 01010 11011 10000 ; 002562 SET F 00101 01010 11011 10000 ; 002563 SET F 00101 01010 11011 10000 ; 002564 SET F 00101 01010 11011 10000 ; 002565 SET F 00101 01010 11011 10000 ; 002566 SET F 00101 01010 11011 10000 ; 002570 SET F 00101 01010 11011 10000 ; 002571 SET F 00101 01010 11011 10000 ; 002572 SET F 00101 11010 11011 10000 ; 002573 SET F 00101 11010 11011 10000 ; 002574 SET F 00101 01010 11011 10000 ; 002575 SET F 00101 01010 11011 10000 ; 002601 SET F 00101 01011 11011 10000 ; 002602 SET F 00101 01010 11011 10000 ; 002603 SET F 00101 01010 11011 10000 ; 002604 SET F 00101 01010 11011 10000 ; 002605 SET F 00101 01010 11011 10000 ; 002607 SET F 00101 01010 11011 10000 ; 002608 SET F 00101 01010 11011 10000 ; 002609 SET F 00101 01010 11011 10000 ; 002601 SET F 00101 01010 11011 10000 ; 002602 SET F 00101 01010 11011 10000 ; 002603 SET F 00101 01010 11011 10000 ; 002604 SET F 00101 01010 11011 10000 ; 002605 SET F 00101							
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           SET F 00101 01010 11001 10000 /
002743
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002744
002745
          L4@ SET F 00101 01010 11011 10000 ,
002746
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002746
           S5@ SET F 00101 00001 00110 00011 .
002747
           SET F 00101 00000 00110 00000 ;
002750
           SET F 00101 00001 00110 00000 ,
002751
           SET F 00101 00000 00110 00000 ;
002752
           SET F 00101 00001 00110 00000 ;
002753
           SET F 00101 00000 00110 00000 ;
002754
           SET F 00101 00001 00110 00000 ,
002755
           SET F 00101 00000 00110 00000 ;
002756
           SET F 00101 00001 05 10 00000 ;
002757
          SET F 00101 00000 0011 00000 ;
           SET F 00101 00001 00110 00001 ,
002760
002761
           SET F 00101 00000 00110 00000 ;
002762
           SET F 00101 00001 00110 00000 ;
002763
           SET F 00101 00000 00110 00000 ,
002764
         SET F 00101 00001 00110 00000 /
002765
           SET F 00101 00000 00110 00000 ;
           SET F 00101 00001 00010 00000 ;
002766
002767
          SET F 00101 00000 00010 00000 ;
002770
           SET F 00101 00001 00010 00000 ;
002771
          SET F 00101 00000 10010 00000 ,
002772
          SET F 00101 00001 11000 00001;
002773
           SET F 00101 00000 11000 00000 ,
002774
           SET F 00101 00001 11000 00000 ;
002775
           SET F 00101 00000 11000 00000 ;
002776
           SET F 00101 00001 11000 00000;
002777
          SET F 00101 00000 11000 00000 ,
003000
           SET F 00101 00001 11000 00000 ,
           SET F 00101 00000 11000 00000 ;
003001
003002
           SE1 F 00101 00001 11000 00000;
003003
           SET F 00101 00000 11000 00000 ;
           SET F 00101 00001 11000 00001 ;
003004
003005
           SET F 00101 00000 11000 00000
003006
           SET F 00101 00001 11000 00000;
           SET F 00101 00000 11000 00000;
003007
           SET F 00101 00001 11000 00000;
003010
           SET F 00101 00000 11000 00000
003011
           SET F 00101 00001 11000 00000
003012
003013
           SET F 00101 00000 11000 00000 ;
           SET F 00101 00001 11000 00000 ;
003014
003015
           SET F 00101 00000 11000 00000 ;
           SET F 00101 00001 11000 00001 ;
003016
003017
           SET F 00101 00000 11000 00000
           SET F 00101 00001 11000 00000 ;
003020
```

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003021
           SET F 00101 00000 11000 00000 ;
003022
          SET F 00101 00001 11000 00000;
003023
           SET F 00101 00000 11000 00000 ;
003024
           SET F 00101 00001 11000 00000 ;
003025
           SET F 00101 00000 11000 00000;
003026
           SET F 00101 00001 11000 00000;
003027
           SET F 00101 00000 11000 00000;
003030
           SET F 00101 00001 11000 00001 ;
003031
          SET F 00101 00000 11000 00000;
003032
          SET F 00101 00001 11000 00000
003033
           SET F 00101 00000 11000 00000;
003034
          SET F 00101 00001 11000 00000;
003035
          SET F 00101 00000 11000 00000 ;
003036
           SET F 00101 00001 11000 00000;
003037
           SET F 00101 00000 11000 00000 /
           SET F 00101 00001 11000 00000;
003040
003041
           SET F 00101 00000 11000 00000;
003042
           SET F 00101 00011 11000 00001 ,
003043
           SET F 00101 00010 11000 00000 ;
           SET F 00101 00011 11000 00000 ;
003044
003045
           SET F 00101 00010 11000 00000 ;
003046
           SET F 00101 00011 11000 00000;
           SET F 00101 00010 11000 00000;
003047
003050
           SET F 00101 00011 11000 00000 ;
003051
           SET F 00101 00010 11000 00000 ,
           SET F 00101 00011 11000 00000;
003052
           SET F 00101 00010 11000 00000;
003053
           SET F 00101 00011 11000 00001;
003054
003055
           SET F 00101 00010 11000 00000 ;
003056
           SET F 00101 00011 11000 00000 /
003057
           SET F 00101 00010 11000 00000;
003060
           SET F 00101 00011 11000 00000 7
           SET F 00101 00010 11000 00000 ;
003061
003062
           SET F 00101 00011 11000 00000;
           SET F 00101 00010 11000 00000;
003063
003064
           SET F 00101 00011 11000 00000;
003065
           SET F 00101 00010 11000 00000 ;
           SET F 00101 00011 11000 00001 ;
990500
           SET F 00101 00010 11000 00000 ;
003067
003070
           SET F 00101 00011 11000 00000 ;
003071
           SET F 00101 00010 11000 00000 ;
           SET F 00101 00011 11000 00000 ;
003072
003073
           SET F 00101 00010 11000 00000 ;
003074
           SET F 00101 00011 11000 00000 ;
           SET F 00101 00010 11000 00000 ;
003075
003076
           SET F 00101 00011 11000 00000 ;
           SET F 00101 00010 11000 00000 ;
           SET F 00101 00011 11000 00001 ;
003100
           SET F 00101 00010 11000 00000
003101
           SET F 00101 00011 11000 00000;
003102
           SET F 00101 00010 11000 00000;
003103
003104
           SET F 00101 00011 11000 00000 ;
           SET F 00101 00010 11000 00000;
003105
003106
           SET F 00101 00011 11000 00000 ;
003107
           SET F 00101 00010 11000 00000
           SET F 00101 00011 11000 00000 7
003110
           SET F 00101 00010 11000 00000 ;
003111
           SET F 00000 00001 11000 00011 ;
003112
           SET F 00000 00000 11000 00000 ;
003113
```

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```
003114
           SET F 00000 00001 11000 00000;
003115
          SET F 00000 €0000 11000 00000 ;
003116
           SET F 00000 00001 11000 00000;
003117
           SET F 00000 00000 11000 00000 ;
003120
          SET F 00000 00001 11000 00000 7
003121
           SET F 00000 00000 11000 00000 7
           SET F 00000 00001 11000 00000 7
003122
003123
           SET F 00000 00000 11000 00000 7
003124
           SET F 00000 00001 11000 00001 ;
003125
           SET F 00000 00000 11000 00000 ;
003126
           SET F 00000 00001 11000 00000 7
003127
           SET F 00000 00000 11000 00000 7
003130
           SET F 00000 00001 11000 00000
003131
           SET F 00000 00000 11000 00000 7
003132
           SET F 00000 00001 11000 00000 ;
003133
           SET F 00000 00000 11000 00000 ;
003134
           SET F 00000 00001 11000 00000 7
           SET F 00000 00000 11000 00000 ;
003135
           SET F 00001 00001 11000 00001;
003136
003137
           SET F 00001 00000 11000 00000 ;
003140
           SET F 00001 00001 11000 00000;
003141
           SET F 00001 00000 11000 00000 ;
003142
           SET F 00001 00001 11000 00000;
003143
          SET F 00001 00000 11000 00000 .
           SET F 00001 00001 11000 00000 ,
003144
           SET F 00001 00000 11000 00000 ;
003145
           SET F 00001 00001 11000 00000;
003146
003147
           SET F 00001 00000 11000 00000 ;
003150
          SET F 00001 00001 11000 00001 /
003151
           SET F 00001 00000 11000 00000;
003152
           SET F 00001 00001 11000 00000 ;
003153
           SET F 00001 00000 11000 00000;
003154
           SET F 00001 00001 11000 00000;
           SET F 00001 00000 11000 00000 ;
003155
003156
           SET F 00001 00001 11000 00000 /
003157
           SET F 00001 00000 11000 00000 ;
           SET F 00001 00001 11000 00000;
003160
           SET F 00001 00000 11000 00000 ;
003161
003162
           SET F 00001 00001 11000 00001 ;
           SET F 00001 00000 11000 00000 ;
003163
003164
           SET F 00001 00001 11000 00000 ;
003165
           SET F 00001 00000 11000 00000 ;
003166
           SET F 00001 00001 11000 00000;
003167
           SET F 00001 00000 11000 00000 ;
           SET F 00001 00001 11000 00000 ;
003170
003171
           SET F 00001 00000 11000 00000 ;
003172
           SET F 00001 00001 11000 00000 ;
003173
           SET F 00001 00000 11000 00000 ;
           SET F 00001 00001 11000 00001 ,
003174
003175
           SET F 00001 00000 11000 00000 ;
003176
           SET F 00001 00001 11000 00000 ;
003177
           SET F 00001 00000 11000 00000 ;
003200
           SET F 00001 00001 11000 00000 ;
003201
           SET F 00001 00000 11000 00000 ;
003202
           SET F 00001 00001 11000 00000
003203
           SET F 00001 00000 11000 00000
003204
           SET F 00001 00001 11000 00000 ;
           SET F 00001 00000 11000 00000 ;
003205
           SET F 00001 00001 11000 00001
003206
```

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```
SET F 00001 00000 11000 00000;
003207
003210
           SET F 00001 00001 11000 00000;
003211
           SET F 00001 00000 11000 00000 ;
003212
           SET F 00001 00001 11000 00000
           SET F 00001 00000 11000 00000
003213
003214
           SET F 00001 00001 11000 00000
003215
           SET F 00001 00000 11000 00000
           SET F 00001 00001 11000 00000
003216
           SET F 00001 00000 11000 00000
003217
003220
           SET F 00001 00001 11000 00001
003221
           SET F 00001 00000 11000 00000
003222
           SET F 00001 00001 11000 00000;
003223
           SET F 00001 00000 11000 00000
003224
           SET F 00001 00001 11000 00000
003225
           SET F 00001 00000 11000 00000
003226
           SET F 00001 00001 11000 00000
003227
           SET F 00001 00000 11000 00000
           SET F 00001 00001 11000 00000
003230
           SET F 00001 00000 11000 00000
003231
003232
           SET F 00001 00001 11000 00001
           SET F 00001 00000 11000 00000
003233
003234
           SET F 00001 00001 11000 00000 ;
           SET F 00001 00000 11000 00000 ;
003235
003236
           SET F 00001 00001 11000 00000
003237
           SET F 00001 00000 11000 00000
           SET F 90001 00001 11000 00000
003240
003241
           SET F 00001 00000 11000 00000
003242
           SET F 00001 00001 11000 00000
           SET F 00001 00000 11000 00000 ;
003243
003244
           SET F 00001 00001 11000 00001
003245
           SET F 00001 00000 11000 00000
003246
           SET F 00001 00001 11000 00000
003247
           SET F 00001 00000 11000 00000 ;
           SET F 00001 00001 11000 00000
003250
           SET F 00001 00000 11000 00000
003251
003252
           SET F 00001 00001 11000 00000
003253
           SET F 00001 00000 11000 00000
003254
           SET F 00001 00001 11000 00000
003255
           SET F 00001 00000 11000 00000;
           SET F 00011 01001 11000 00011
003256
           SET F 00011 01000 11000 00000
003257
           SET F 00011 01001 11000 00000
003260
003261
           SET F 00011 01000 11000 00000
           SET F 00011 01001 11000 00000
003262
003263
           SET F 00011 01000 11000 00000
003264
           SET F 00011 01001 11000 00000
003265
           SET F 00011 01000 11000 00000
           SET F 00011 01001 11000 00000
003266
003267
           SET F 00011 01000 11000 00000
003270
           SET F 00011 01001 11000 00001
           SET F 00011 01000 11000 00000
003271
           SET F 00011 01001 11000 00000 ;
003272
003273
           SET F 00011 01000 11000 00000
003274
           SET F 00011 01001 11000 00000
003275
           SET F 00011 01000 11000 00000
003276
           SET F 00011 01001 11000 00000
           SET F 00011 01000 11000 00000 ;
003277
003300
           SET F 00011 01001 11000 00000
003301
           SET F 00011 01000 11000 00000 ;
```

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```
003302
           SET F 00011 00001 11000 00001 ;
003303
           SET F 00011 00000 11000 00000 ;
003304
           SET F 00011 00001 11000 00000;
003305
           SET F 00011 00000 11000 00000
003306
           SET F 00011 00001 11000 00000 ;
003307
           SET F 00011 00000 11000 00000 1
003310
           SET F 00011 00001 11000 00000
003311
           SET F 00011 00000 11000 00000
003312
           SET F 00011 00001 11000 00000 .
003313
           SET F 00011 00000 11000 00000 :
           SET F 00011 00001 11000 00001
003314
003315
           SET F 00011 00000 11000 00000
003316
                 00011 00001 11000 00000
           SET F
003317
                 00011 00000 11000 00000
003320
           SET F 00011 00001 11000 00000 .
003321
           SET F 00011 00000 11000 00000
003322
           SET F 00011 00001 11000 00000
003323
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000
003324
003325
           SET F 00011 00000 11000 00000
003326
           SET F 00011 00001 11000 00001;
003327
           SET F 00011 00000 11000 00000
003330
           SET F 00011 00001 11000 00000
003331
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000;
003332
           SET F 00011 00000 11000 00000 ;
003333
003334
           SET F 00011 00001 11000 00000
003335
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00000 ;
003336
003337
           SET F 00011 00000 11000 00000
003340
           SET F 00011 00001 11000 00001
003341
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000;
003342
003343
           SET F 00011 00000 11000 00000
003344
           SET F 00011 00001 11000 00000;
003345
           SET F 00011 00000 11000 00000 ;
003346
           SET F 00011 00001 11000 00000 ;
003347
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00000;
003350
           SET F 00011 00000 11000 00000
003351
003352
           SET F 00011 00001 11000 00001
003353
           SET F 00011 00000 11000 00000 ;
003354
           SET F 00011 00001 11000 00000;
003355
           SET F 00011 00000 11000 00000
003356
           SET F 00011 00001 11000 00000
003357
           SET F 00011 00000 11000 00000
003360
           SET F 00011 00001 11000 00000 /
           SET F 00011 00000 11000 00000
003361
003362
           SET F 00011 00001 11000 00000
003363
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00001
003364
003365
           SET F 00011 00000 11000 00000
003366
           SET F 00011 00001 11000 00000
003367
           SET F 00011 00000 11000
                                    00000
003370
           SET F 00011 00001 11000 00000
003371
           SET F 00011 00000 11000 00000 ,
           SET F 00011 00001 11000 00000;
003372
003373
           SET F 00011 00000 11000 00000 ;
003374
           SET F 00011 00001 11000 00000
```

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003375	SET	F	00011	00000	11000	00000	i
003376	SET	F	00011	00001	11000	00001	i
003377	SET	F	00011	00000	11000	00000	i
003400	SET	F	00011	00001	11000	00000	i
003401	SET	F	00011	00000	11000	00000	i
003402	SET	F	00011	00001	11000	00000	i
003403	SET	F	00011	00000	11000	00000	i
003404	SET	F	00011	00001	11000	00000	i
003405	SET	F	00011	00000	11000	00000	i
003406	SET	F	00011	00001	11000	00000	i
003407	SET	F	00011	00000	11000	00000	i
003410	SET	F	00011	00001	11000	00001	
003411	SET	F	00011	00000	11000	00000	i
003412	SET	F	00011	00001	11000	00000	i
003413	SET	F	00011	00000	11000	00000	i
003414	SET	F	00011	00001	11000	00000	i
003415	SET	F	00011	00000	11000	00000	i
003416	SET	۲	00011	00001	11000	00000	i
003417	SET	F	00011	00000	11000	00000	i
003420	SET	F	00011	00001	11000	00000	i
003421	SET	F	00011	00000	11000	00000	i
003422	SET	F	00011	00001	11000	00011	i
003423	SET	F	00011	00000	11000	00000	i
003424	SET	F	00011	00001	11000	00000	i
003425	SET	F	00011	00000	11000	00000	î
003426	SET	F	00011	00001	11000	00000	i
003427	SET	F	00011	00000	11000	00000	i
003430	SET	F	00011	00001	11000	00000	i
003431	SET	F	00011	00000	11000	00000	i
003432	SET	F	00011	00001	11000	00000	i
003433	SET	F	00011	00000	11000	00000	i
003434	SET	F	00011	00001	11000	00001	ì
003435	SET	F	00011	00000	11000	00000	į
003436	SET	F	00011	00001	11000	00000	i
003437	SET	F	00011	00000	11000	00000	i
003440	SET	F	00011	00001	11000	00000	i
003441	SET	F	00011	00000	11000	00000	i
003442	SET	F	00011	00001	11000	00000	,
003443	SET	F	00011	00000	11000	00000	,
003444	SET	F	00011	00001	11000	00000	i
003445	SET	F	00011	00000	11000	00000	i
003446	SET	F	00011	00001	11000	00001	i
003447	SET	F	00011	00000	11000	00000	i
003450	SET	F	00011	00001	11000	00000	i
003451	SET		00011	00000	11000	00000	i
003452	SET		00011	00001	11000	00000	i
003453	SET	F	00011	00000	11000	00000	i
003454	SET		00011	00001	11000	00000	
003455	SET		00011	00000	11000	00000	i
003456	SET		00011	00001	11000	00000	i
003457	SET		00011	00000	11000	00000	i
003460	SET	F	00011	00001	11000	00001	i
003461	SE1		00011	00000	11000	00000	,
003462	SET		00011	00001	11000	00000	,
003463	SET	F	00011	00000	11000	00000	,
003464	SET		00011	00001	11000	00000	
003465	SET		00011	00000	11000	00000	,
003466	SET		00011	00001	11000	00000	
003467	SET	F	00011	00000	11000	00000	,

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003470	SET	F	00011	00001	11000	00000	,
003471	SET	F	00011	00000	11000	00000	,
003472	SET	F	00011	00001	11000	00001	;
003473	SET	F	00011	00000	11000	00000	i
003474	SET	H	00011	00001	11000	00000	,
003475	SET	F	00011	00000	11000	00000	,
003476	SET	F	00011	00001	11000	00000	,
003477	SET	F	00011	00000	11000	00000	i
003500	SET	F	00011	00001	11000	00000	7
003501	SET	F	00011	00000	11000	00000	
003502	SET	F	00011	00001	11000	00000	,
003503	SET	F	00011	00000	11000	00000	
003504	SET	F	00011	00001	11000	00001	ï
003505	SET	F	00011	00000	11000	00000	,
003506	SET	F	00011	00001	11000	00000	,
003507	SET	F	00011	00000	11000	00000	;
003510	SET	F	00011	00001	11000	00000	,
003511	SET	F	00011	00000	11000	00000	;
003512	SET	+	00011	00001	11000	00000	
003513	SET	F	00011	00000	11000	00000	
003514	SET		00011	000001			,
		+			11000	00000	i
003 51 5 003 51 6	SET	F	00011	00000	11000	00000	i
	SET		00011	00001	11000	00001	i
003517	SET	F	00011	00000	11000	00000	i
003520	SET	F	00011	00001	11000	00000	i
003521	SET	F	00011	00000	11000	00000	,
003522	SET	F	00011	00001	11000	00000	i
003523	SET	F	00011	00000	11000	00000	i
003524	SET	F	00011	00001	11000	00000	i
003525	SET	H	00011	00000	11000	00000	i
003526	SET	F	00011	00001	11000	00000	i
003527	SET	F	00011	00000	11000	00000	,
003530	SET	F	00011	00001	11000	00001	i
003531	SET	F	00011	00000	11000	00000	i
003532	SET	+	00011	00001	11000	00000	i
003533	SET	F	00011	00000	11000	00000	i
003534	SET	F	00011	00001	11000	00000	i
003535	SET	F	00011	00000	11000	00000	j
003536	SET	F	00011	00001	11000	00000	i
003537	SET	F	00011	00000	11000	00000	i
003540	SET	F	00011	00001	11000	00000	i
003541	SET	F	00011	00000	11000	00000	i
003542	SET	F	00011	00001	11000	00001	i
003543	SET	F	00011	00000	11000	00000	i
003544	SET	F	00011	00001	11000	00000	į
003545	SET	F	00011	00000	11000	00000	,
003546	SET	F	00011	00001	11000	00000	
003547	SET	F	00011	00000	11000	00000	i
003550	SET	F	00011	00001	11000	00000	;
003551	SET	F	00011	00000	11000	00000	i
003552	SET	F	00011	00001	11000	00000	,
003553	SET	F	00011	00000	11000	00000	i
003554	SET	F	00011	00001	11000	00001	;
003555	SET	F	00011	00000	11000	00000	,
003556	SET	F	00011	00001	11000	00000	i
003557	SET	F	00011	00000	11000	00000	;
003560	SET	F	00011	00001	11000	00000	,
003561	SET	F	00011	00000	11000	00000	i
003562	SET	F	00011	00001	11000	00000	,

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```
003563
           SET F 00011 00000 11000 00000 ;
003564
           SET F 00011 00001 11000 00000 ;
003565
           SET F 00011 00000 11000 00000 ;
003566
           SET F 00011 00001 11000 00011
003567
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00000 ;
003570
           SET F 00011 00000 11000 00000
003571
003572
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000
003573
003574
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000 2
003575
           SET F 00011 00001 11000 00000
003576
003577
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00001 ;
003600
003601
           SET F 00011 00000 11000 00000
003602
           SET F 00011 00001 11000 00000 ;
003603
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000
003604
003605
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00000 ;
909800
003607
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
003610
003611
           SET F 00011 00000 11000 00000
003612
           SET F 00011 00001 11000 00001 ;
003613
           SET F 00011 00000 11000 00000
003614
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000 ;
003615
003616
           SET F 00011 00001 11000 00000;
           SET F 00011 00000 11000 00000
003617
003620
           SET F 00011 00001 11000 00000
003621
           SET F 00011 00000 11000 00000 7
           SET F 00011 00001 11000 00000;
003622
003623
           SET F 00011 00000 11000 00000
003624
           SET F 00011 00001 11000 00001 2
           SET F 00011 00000 11000 00000
003625
003626
           SET F 00011 00001 11000 00000 7
003627
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00000 ;
003630
           SET F 00011 00000 11000 00000 ;
003631
003632
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000 ;
003633
           SET F 00011 00001 11000 00000 ;
003634
           SET F 00011 00000 11000 00000 ;
003635
003636
           SET F 00011 00001 11000 00001 ;
           SET F 00011 00000 11000 00000 1
003637
           SET F 00011 00001 11000 00000 ;
003640
           SET F 00011 00000 11000 00000 ;
003641
003642
           SET F 00011 00001 11000 00000 ;
003643
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
003644
           SET F 00011 00000 11000 00000 ;
003645
003646
           SET F 00011 00001 11000 00000 a
003647
           SET F 00011 00000 11000 00000 7
003650
           SET F 00011 00001 11000 00001 ;
           SET F 00011 00000 11000 00000 ;
003651
003652
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000 ;
003653
003654
           SET F 00011 00001 11000 00000 ;
003655
           SET F 00011 00000 11000 00000 ;
```

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```
003656
           SET F 00011 00001 11000 00000 ;
003657
           SET F 00011 00000 11000 00000;
003660
           SET F 00011 00001 11000 00000
003661
           SET F 00011 00000 11000 00000
003662
           SET F 00011 00001 11000 00001
003663
           SET F 00011 00000 11000 00000
003664
           SET F 00011 00001 11000 00000
003665
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00000
003666
003667
           SET F 00011 00000 11000 00000
003670
           SET F 00011 00001 11000 00000
003671
           SET F 00011 00000 11000 00000
003672
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000
003673
003674
           SET F 00011 00001 11000 00001 .
           SET F 00011 00000 11000 00000
003675
003676
           SET F 00011 00001 11000 00000
003677
           SET F 00011 00000 11000 00000 ;
003700
           SET F 00011 00001 11000 00000
003701
           SET F 00011 00000 11000 00000
003702
           SET F 00011 00001 11000 00000
003703
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
003704
003705
           SET F 00011 00000 11000 00000
003706
           SET F 00011 00001 11000 00001;
003707
           SET F 00011 00000 11000 00000
003710
           SET F 00011 00001 11000 00000 ;
003711
           SET F 00011 00000 11000 00000 ;
003712
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000 ;
003713
003714
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000 ;
003715
           SET F 00011 00001 11000 00000 ;
003716
           SET F 00011 00000 11000 00000 ;
003717
003720
           SET F 00011 00001 11000 00001
           SET F 00011 00000 11000 00000 ;
003721
           SET F 00011 00001 11000 00000 ;
003722
           SET F 00011 00000 11000 00000 ;
003723
003724
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000
003725
003726
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000 ;
003727
003730
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000
003731
           SET F 00011 00001 11000 00011 ;
003732
           SET F 00011 00000 11000 00000
003733
003734
           SET F 00011 00001 11000 00000
003735
           SET F 00011 00000 11000 00000 ;
003736
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000 ;
003737
003740
           SET F 00011 00001 11000 00000
003741
           SET F 00011 00000 11000 00000
003742
           SET F 00011 00001 11000 00000 .
           SET F 00011 00000 11000 00000 ;
003743
003744
           SET F 00011 00001 11000 00001 .
003745
           SET F 00011 00000 11000 00000
003746
           SET F 00011 00001 11000 00000
                 00011 00000 11000 00000
003747
           SET F
           SET F 00011 00001 11000 00000 ;
003750
```

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003751	SET F 00011	00000	11000 00000 ;
003752	SET F 00011	00001	11000 00000 ;
003753	SET F 00011	00000	11000 00000 ;
003754	SET F 00011	00001	11000 00000 i
003755	SET F 00011	00000	11000 00000 ;
003756	SET F 00011	00001	11000 00001 ;
003757	SET F 00011	00000	11000 00000 ;
003760	SET F 00011	00001	11000 00000 ;
003761	SET F 00011	00000	11000 00000 ;
003762	SET F 00011	00001	11000 00000 ;
003763	SET F 00011	00000	11000 00000 ;
003764	SET F 00011	00001	11000 00000 ;
003765	SET F 00011	00000	11000 00000 ;
003766	SET F 00011	00001	11000 00000 ;
003767	SET F 00011	00000	11000 00000 ;
003770	SET F 00011	00001	11000 00001 /
003771	SET F 00011	00000	11000 00000 ;
003772	SET F 00011	00001	11000 00000 ;
003773	SET F 00011	00000	11000 00000 ;
003774	SET F 00011	00001	11000 00000 ;
003775	SET F 00011	00000	11000 00000 ;
003776	SET F 00011	00001	11000 00000 ;
003777	SET F 00011	00000	11000 00000 ;
004000	SET F 00011	00001	11000 00000 ;
004001	SET F 00011	00000	
004002	SET F 00011	00001	11000 00000 ;
004003	SET F 00011	00000	
004004	SET F 00011	00001	
004005	SET F 00011	00000	
004006	SET F 00011	000001	
004002	SET F 00011	00000	
004010	SET F 00011	00001	
004011	SET F 00011	00000	11000 00000 ;
004012	SET F 00011	000001	11000 00000 7
004013	SET F 00011	00000	110000 00000 ;
004014	SET F 00011	00001	11000 00001 /
004014	SET F 00011	00000	11000 00000 ;
004016	SET F 00011	000001	11000 00000 ;
004017	SET F 00011	00000	
004017	SET F 00011	000001	11000 00000 ;
004021	SET F 00011	00000	11000 00000 ;
004022	SET F 00011	00000	11000 00000 /
004023	SET F 00011	00000	
004023	SET F 00011	000001	
004025	SET F 00011	00000	The second of the second
004025	SET F 00011	000001	
004025	SET F 00011	00000	11000 00001 ;
004027	SET F 00011	000001	
004030	SET F 00011	00000	
004031	SET F 00011	000001	11000 00000 ;
004032	SET F 00011	00000	11000 00000 ,
004033	SET F 00011	000001	11000 00000 ;
004034	SET F 00011	00000	11000 00000 /
004035	SET F 00011	000001	11000 00000 /
004038	SET F 00011	00000	11000 00000 ;
004040	SET F 00011	000001	11000 00000 ;
004041	SET F 00011	00000	11000 00000 ;
004041	SET F 00011	00001	11000 00000 ;
004043	SET F 00011	00000	11000 00000 7
201010	JE 00011	00000	11000 00000 /

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004044	SEI F	00011	00001	11000	00000	,
004045	SET F	00011	00000	11000	00000	;
004046	SET F	00011	00001	11000	00000	,
004047	SET F	00011	00000	11000	00000	,
004050	SET F	00011	00001	11000	00000	,
004051	SET F	00011	00000	11000	00000	
004052	SET F	00011	00001			,
004053				11000	00001	i
		00011	00000	11000	00000	,
004054	SET F	00011	00001	11000	00000	i
004055	SET F	00011	00000	11000	00000	i
004056	SET F	00011	00001	11000	00000	i
004057	SET F	00011	00000	11000	00000	,
004060	SET F	00011	00001	11000	00000	;
004061	SET F	00011	00000	11000	00000	i
004062	SET F	00011	00001	11000	00000	,
004063	SET F	00011	00000	11000	00000	;
004064	SET F	00011	00001	11000	00001	,
004065	SET F	00011	00000	11000	00000	,
004066	SET F	00011	00001	11000	90000	
004067	SET F	00011				i
			00000	11000	00000	,
004070	SET F	00011	00001	11000	00000	;
004071	SET F	00011	00000	11000	00000	i
004072	SET F	00011	00001	11000	00000	i
004073	SET F	00011	00000	11000	00000	i
004074	SET F	00011	00001	11000	00000	i
004075	SET F	00011	00000	11000	00000	;
004076	SET F	00011	00001	11000	00011	i
004077	SET F	00011	00000	11000	00000	,
004100	SET F	00011	00001	11000	00000	,
004101	SET F	00011	00000	11000	00000	,
004102	SET F	00011	00001	11000	00000	
004103	SET F	00011	00000	11000		i
004104	SET F	00011			00000	,
			00001	11000	00000	,
004105	SET F	00011	00000	11000	00000	,
004106	SET F	00011	00001	11000	00000	i
004107	SET F	00011	00000	11000	00000	i
004110	SET F	00011	00001	11000	00001	i
004111	SET F	00011	00000	11000	00000	i
004112	SET F	00011	00001	11000	00000	ì
004113	SET F	00011	00000	11000	00000	i
004114	SET F	00011	00001	11000	00000	;
004115	SET F	00011	00000	11000	00000	;
004116	SET F	00011	00001	11000	00000	,
004117	SET F	00011	00000	11000	00000	i
004120	SET F	00011	00001	11000	00000	;
004121	SET F	00011	00000	11000	00000	
004122	SET F	00011	00001	11000	00001	i
004123		00011				i
			00000	11000	00000	i
004124	SET F	00011	00001	11000	00000	i
004125	SET F	00011	00000	11000	00000	î
004126	SET F	00011	00001	11000	00000	i
004127	SET F	00011	00000	11000	00000	i
004130	SET F	00011	00001	11000	00000	i
004131	SET F	00011	00000	11000	00000	i
004132	SET F	00011	00001	11000	00000	i
004133	SET F	00011	00000	11000	00000	;
004134	SET F	00011	00001	11000	00001	,
004135	SET F	00011	00000	11000	00000	,
004136	SET F	00011	00001	11000	00000	,
			- Commence of the commence of			

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```
004137
           SET F 00011 00000 11000 00000 ;
004140
           SET F 00011 00001 11000 00000 ;
004141
           SET F 00011 00000 11000 00000 ;
004142
           SET F 00011 00001 11000 00000
004143
           SET F 00011 00000 11000 00000
004144
           SET F 00011 00001 11000 00000
004145
           SET F 00011 00000 11000 00000
004146
           SET F 00011 00001 11000 00001 ;
004147
           SET F 00011 00000 11000 00000
004150
           SET F 00011 00001 11000 00000
004151
           SET F 00011 00000 11000 00000
004152
           SET F 00011 00001 11000 00000;
004153
           SET F 00011 00000 11000 00000 ;
004154
           SET F 00011 00001 11000 00000
004155
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000
004156
           SET F 00011 00000 11000 00000
004157
004160
           SET F 00011 00001 11000 00001 ;
004161
           SET F 00011 00000 11000 00000 ;
004162
           SET F 00011 00001 11000 00000
004163
           SET F 00011 00000 11000 00000
004164
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000;
004165
004166
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000 ;
004167
004170
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000 ;
004171
004172
           SET F 00011 00001 11000 00001
004173
           SET F 00011 00000 11000 00000
004174
           SET F 00011 00001 11000 00000 ;
004175
           SET F 00011 00000 11000 00000
004176
           SET F 00011 00001 11000 00000
004177
           SET F 00011 00000 11000 00000;
           SET F 00011 00001 11000 00000 ;
004200
004201
           SET F 00011 00000 11000 00000;
004202
           SET F 00011 00001 11000 00000;
           SET F 00011 00000 11000 00000 ;
004203
004204
           SET F 00011 00001 11000 00001;
004205
           SET F 00011 00000 11000 00000
004206
           SET F 00011 00001 11000 00000 ;
004207
           SET F 00011 00000 11000 00000 ;
004210
           SET F 00011 00001 11000 00000
004211
           SET F 00011 00000 11000 00000
004212
           SET F 00011 00001 11000 00000 ;
004213
           SET F 00011 00000 11000 00000 ;
004214
           SET F 00011 00001 11000 00000 ;
004215
           SET F 00011 00000 11000 00000
004216
           SET F 00011 00001 11000 00001;
004217
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
004220
004221
           SET F 00011 00000 11000 00000;
004222
           SET F 00011 00001 11000 00000
004223
           SET F 00011 00000 11000 00000
004224
           SET F 00011 00001 11000 00000 ;
004225
           SET F 00011 00000 11000 00000
004226
           SET F 00011 00001 11000 00000 ;
004227
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00001 ;
004230
           SET F 00011 00000 11000 00000
004231
```

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```
SET F 00011 00001 11000 00000 ;
004232
004233
          SET F 00011 00000 11000 00000 ;
004234
           SET F 00011 00001 11000 00000 ;
004235
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000
004236
004237
           SET F 00011 00000 11000 00000
004240
           SET F 00011 00001 11000 00000
          L5@ SET F 00011 00000 11000 00000 ;
004241
004242
004242
                     IF SWITCH EQ 7.1 THEN GOTO LOOP ;
004244
004244
                     SET START 0 ;
004245
                     SET MAJOR 1, L3 ;
                     SET MINOR 1, S3, L3;
004246
004247
                     ENABLE TEST :
                                                   REM 3, VDD - A ;
004250
004250
                     FORCE VF2 V2, RNG3;
                                                  REM VDD - B .;
                     SET START 288 ;
604251
004252
                     SET MAJOR 1, L4 /
004253
                     SET MINOR 1, S4, L4;
004254
                     ENABLE TEST :
                                                    REM 4. VDD - B .
004255
004255
                     IF OUT EQ & OR OUT EQ 16 THEN GOTO SKIP ;
004257
                    FORCE VF2 V3, RNG3;
                                                   REM VDD - C ;
004260
                     SET START 300 ;
                     SET MAJOR 1, L5 ;
004261
004262
                     SET MINOR 1, S5, L5 ;
004263
                     ENABLE TEST ;
                                                   REM 5, VDD - C ;
004264
004264
                     AT O :
004265
                   INSERT HDLP3 ; REM THIRD L.M. LOAD 2000-2600 ; REM HDL MOS SCALER PATTERN FOR LOAD 3 'HDLP3' 6/21/74.
004265
004265
                  CREATED BY H. S. GILL;
004265
          S6@ SET F 00011 00001 11000 00000 ;
004266
         SET F 00011 00000 11000 00000 ;
004267
          SET F 00011 00001 11000 00000 ;
004270
           SET F 00011 00000 11000 00000
004271
           SET F 00011 00001 11000 00000 ;
004272
           SET F 00011 00000 11000 00000;
           SET F 00011 00001 11000 00000
004273
004274
           SET F 00011 00000 11000 00000
           SET F 00011 00001 11000 00000 ;
004275
004276
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00001 ;
004277
004300
           SET F 00011 00000 11000 00000
004301
           SET F 00011 00001 11000 00000 ;
004302
           SET F 00011 00000 11000 00000 ;
004303
           SET F 00011 00001 11000 00000 ;
004304
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
004305
004306
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
004307
004310
           SET F 00011 00000 11000 00000 ;
004311
           SET F 00011 00001 11000 00001 ;
004312
           SET F 00011 00000 11000 00000 ;
004313
           SET F 00011 00001 11000 00000;
           SET F 00011 00000 11000 00000 ;
004314
004315
           SET F 00011 00001 11000 00000
004316
           SET F 00011 00000 11000 00000 ;
                                                                   615 0552 401
```

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004317	SET F	00011	00001	11000	00000	i
004320	SET F	00011	00000	11000	00000	;
004321	SET F	00011	00001	11000	00000	i
004322	SET F	00011	00000	11000	00000	i
004323	SET F	00011	00001	11000	00001	,
004324	SET F	00011	00000	11000	00000	i
004325	SET F	00011	00001	11000	00000	
004326	SET F	00011	00000	11000	- 2 2 5 5	i
					00000	i
004327	SET F	00011	00001	11000	00000	,
004330	SET F	00011	00000	11000	00000	i
004331	SET F	00011	00001	11000	00000	i
004332	SET F	00011	00000	11000	00000	i
004333	SET F	00011	00001	11000	00000	į
004334	SET F	00011	00000	11000	00000	i
004335	SET F	00011	00001	11000	00001	i
004336	SET F	00011	00000	11000	00000	i
004337	SET F	00011	00001	11000	00000	;
004340	SET F	00011	00000	11000	00000	
004341			00001			,
004341		00011		11000	00000	,
-5.00 5.70 5.70	SET F	00011	00000	11000	00000	i
004343	SET F	00011	00001	11000	00000	,
004344	SET F	00011	00000	11000	00000	i
004345	SET F	00011	00001	11000	00000	i
004346	SET F	00011	00000	11000	00000	ž
004347	SET F	00011	00001	11000	00001	i
004350	SET F	00011	00000	11000	00000	i
004351	SET F	00011	00001	11000	00000	i
004352	SET F	00011	00000	11000	00000	i
004353	SET F	00011	00001	11000	00000	;
004354	SET F	00011	00000	11000	00000	
						i
004355	SET F	00011	00001	11000	00000	,
004356	SET F	00011	00000	11000	00000	i
004357	SET F	00011	00001	11000	00000	i
004360	SET F	00011	00000	11000	00000	i
004361	SET F	00011	00001	11000	00001	,
004362	SET F	00011	00000	11000	00000	,
004363	SET F	00011	00001	11000	00000	i
004364	SET F	00011	00000	11000	00000	i
004365	SET F	00011	00001	11000	00000	i
004366	SET F	00011	00000	11000	00000	;
004367	SET F	00011	00001	11000	00000	i
004370	SET F	00011	00000	11000	00000	,
004371	SET F	00011	00001	11000	00000	
004371	SET F	00011	00000	11000	00000	i
						i
004373	SET F	00011	00001	11000	00001	i
004374	SET F	00011	00000	11000	00000	i
004375	SET F	00011	00001	11000	00000	į
004376	SET F	00011	00000	11000	00000	i
004377	SET F	00011	00001	11000	00000	,
004400	SET F	00011	00000	11000	00000	i
004401	SET F	00011	00001	11000	00000	i
004402	SET F	00011	00000	11000	00000	i
004403	SET F	00011	00001	11000	00000	i
004404	SET F	00011	00000	11000	00000	,
004405	SET F	00011	00001	11000	00001	,
004406	SET F	00011	00000	11000	00000	;
004407	SET F	00011	00001	11000	00000	i
004410	SET F	00011	00000	11000	00000	i
004411	SET F	00011	00001	11000	00000	,
004411	JE 1 7	00011	JUJU1	11000	20000	,

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004412	SET	F	00011	00000	11000	00000	i
004413	SET	F	00011	00001	11000	00000	i
004414	SET	F	00011	00000	11000	00000	i
004415	SET	F	00011	00001	11000	00000	i
004416	SET	F	00011	00000	11000	00000	i
004417	SET	F	00011	00001	11000	00001	,
004420	SET	F	00011	00000	11000	00000	i
004421	SET	F	00011	00001	11000	00000	i
004422	SET	F	00011	00000	11000	00000	
004423	SET	F	00011	00001	11000	00000	i
004424	SET	F	00011	00000	11000	00000	i
004425	SET	F	00011	00001	11000	00000	1
004426	SET	F	00011	00000	11000	00000	i
004427	SET	F	00011	00001	11000	00000	i
004430	SET	F	00011	00000	11000	00000	;
004431	SET	F	00011	00001	11000	00011	;
004432	SET	F	00011	00000	11000	00000	i
004433	SET	F	00011	00001	11000	00000	i
004434	SET	F	00011	00000	11000	00000	i
004435	SET	F	00011	00001	11000	00000	i
004436	SET	F	00011	00000	11000	00000	,
004437	SET	F	00011	00001	11000	00000	,
004440	SET	F	00011	00000	11000	00000	;
004441	SET	F	00011	00001	11000	00000	,
004442	SET	F	00011	00000	11000	00000	i
004443	SET	F	00011	00001	11000	00001	,
004444	SET	F	00011	00000	11000	00000	j
004445	SET	F	00011	00001	11000	00000	i
004446	SET	F	00011	00000	11000	00000	i
004447	SET	F	00011	00001	11000	00000	,
004450	SET	F	00011	00000	11000	00000	i
004451	SET	F	00011	00001	11000	00000	;
004452	SET	F	00011	00000	11000	00000	,
004453	SET	F	00011	00001	11000	00000	i
004454	SET	F	00011	00000	11000	00000	i
004455	SET	F	00011	00001	11000	00001	i
004456	SET	F	00011	00000	11000	00000	i
004457	SET	F	00011	00001	11000	00000	i
004460	SET	F	00011	00000	11000	00000	;
004461	SET	F	00011	00001	11000	00000	i
004462	SET	F	00011	00000	11000	00000	,
004463	SET	F	00011	00001	11000	00000	i
004464	SET	F	00011	00000	11000	00000	i
004465	SET	F	00011	00001	11000	00000	,
004466	SET	F	00011	00000	11000	00000	,
004467	SET	F	00011	00001	11000	00001	1
004470	SET	F	00011	00000	11000	00000	i
004471	SET	F	00011	00001	11000	00000	i
004472	SET	F	00011	00000	11000	00000	i
004473	SET	F	00011	00001	11000	00000	i
004474	SET	F	00011	00000	11000	00000	i
004475	SET	F	00011	00001	11000	00000	ĵ
004476	SET	F	00011	00000	11000	00000	i
004477	SET	F	00011	00001	11000	00000	i
004500	SEI	F	00011	00000	11000	00000	,
004501	SET	F	00011	00001	11000	00001	j
004502	SET	F	00011	00000	11000	00000	,
004503	SET	F	00011	00001	11000	00000	,
004504	SET	F	00011	00000	11000	00000	,

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004505	SET F	00011	00001	11000	00000	,
004506	SET F	00011	00000	11000	00000	i
004507	SET F	00011	00001	11000	00000	i
004510	SET F	00011	00000	11000	00000	i
004511	SET F	00011	00001	11000	00000	i
004512	SET F	00011	00000	11000	00000	i
004513	SET F	00011	00001	11000	00001	i
004514	SET F	00011	00000	11000	00000	i
004515	SET F	00011	00001	11000	00000	i
004516	SET F	00011	00000	11000	00000	i
004517	SET F	00011	00001	11000	00000	i
004520	SET F	00011	00000	11000	00000	i
004521	SET F	00011	00001	11000	00000	,
004522	SET F	00011	00000	11000	00000	î
004523	SET F	00011	00001	11000	00000	i
004524	SET F	00011	00000	11000	00000	i
004525	SET F	00011	00001	11000	00001	i
004526	SET F	00011	00000	11000	00000	i
004527	SET F	00011	00001	11000	00000	ì
004530	SET F	00011	00000	11000	00000	i
004531	SET F	00011	00001	11000	00000	i
004532	SET F	00011	00000	11000	00000	i
004533	SET F	00011	00001	11000	00000	i
004534	SET F	00011	00000	11000	00000	i
004535	SET F	00011	00001	11000	00000	i
004536	SET F	00011	00000	11000	00000	i
004537	SET F	00011	00001	11000	00001	i
004540	SET F	00011	00000	11000	00000	i
004541	SET F	00011	00001	11000	00000	i
004542	SET F	00011	00000	11000	00000	,
004543	SET F	00011	00001	11000	00000	i
004544	SET F	00011	00000	11000	00000	i
004545	SET F	00011	00001	11000	00000	i
004546	SET F	00011	00000	11000	00000	ì
004547	SET F	00011	00001	11000	00000	i
004550	SET F	00011	00000	11000	00000	j
004551	SET F	00011	00001	11000	00001	i
004552	SET F	00011	00000	11000	00000	i
004553	SET F	00011	00001	11000	00000	i
004554	SET F	00011	00000	11000	00000	i
004555	SET F	00011	00001	11000	00000	ì
004556	SET F	00011	00000	11000	00000	i
004557	SET F	00011	00001	11000	00000	i
004560	SET F	00011	00000	11000	00000	i
004561	SET F	00011	00001	11000	00000	,
004562	SET F	00011	00000	11000	00000	i
004563	SET F	00011	00001	11000	00001	i
004564	SET F	00011	00000	11000	00000	i
004565	SET F	00011	00001	11000	00000	i
004566	SET F	00011	00000	11000	00000	i
004567	SET F	00011	00001	11000	00000	,
004570	SET F	00011	00000	11000	00000	,
004571	SET F	00011	00001	11000	00000	i
004572	SET F	00011	00000	11000	00000	i
004573	SET F	00011	00001	11000	00000	,
004574	SET F	00011	00000	11000	00000	,
004575	SET F	00011	00001	11000	00011	,
004576	SET F	00011	00000	11000	00000	,
004577	SET F	00011	00001	11000	00000	i

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```
004673
           SET F 00011 00001 11000 00000
004674
           SET F 00011 00000 11000 00000
004675
           SET F 00011 00001 11000 00000
004676
           SET F 00011 00000 11000
004677
           SET F 00011 00001 11000 00000
004700
           SET F 00011 00000 11000 00000
004701
           SET F 00011 00001 11000 00000
004702
           SET F 00011 00000 11000 00000
004703
           SET F 00011 00001 11000 00001
004704
           SET F 00011 00000 11000 00000
004705
           SET F 00011 00001 11000 00000
004706
           SET F 00011 00000 11000 00000
004707
           SET F 00011 00001 11000 00000
004710
           SET F 00011 00000 11000 00000
004711
           SET F 00011 00001 11000 00000
004712
           SET F 00011 00000 11000 00000
004713
           SET F 00011 00001 11000 00000
004714
           SET F 00011 00000 11000 00000
004715
           SET F 00011 00001 11000 00001
004716
           SET F 00011 00000 11000 00000
004717
           SET F 00011 00001 11000 00000
004720
           SET F 00011 00000 11000 00000
004721
           SET F 00011 00001 11000 00000
004722
           SET F 00011 00000 11000 00000
004723
           SET F 00011 00001 11000 00000
004724
           SET F 00011 00000 11000 00000
004725
           SET F 00011 00001 11000 00000
004726
           SET
               F 00011 00000 11000 00000
004727
           SET F 00011 00001 11000 00001
004730
           SET F 00011 00000 11000 00000
004731
           SET F 00011 00001 11000 00000
004732
           SET F 00011 00000 11000 00000
004733
           SET F 00011 00001 11000 00000
004734
           SET F 00011 00000 11000 00000
004735
           SET F 00011 00001 11000 00000
004736
           SET F 00011 00000 11000 00000
004737
           SET F 00011 00001 11000 00000
004740
           SET F 00011 00000 11000 00000
004741
           SET F 00011 00001 11000 00011
004742
           SET F 00011 00000 11000 00000
004743
           SET F 00011 00001 11000 00000
004744
           SET F 00011 00000 11000 00000
004745
           SET F 00011 00001 11000 00000
004746
           SET F 00011 00000 11000 00000
004747
           SET F 00011 00001 11000 00000
004750
           SET F 00011 00000 11000 00000
004751
           SET F 00011 00001 11000 00000
004752
           SET F 00011 00000 11000 00000
004753
           SET F 00011 00001 11000 00001
004754
           SET F 00011 00000 11000 00000
004755
           SET F 00011 00001 11000 00000
004756
           SET F 00011 00000 11000 00000
004757
           SET F 00011 00001 11000 00000
004760
           SET F 00011 00000 11000 00000
004761
           SET F 00011 00001 11000 00000
           SET F 00011 00000 11000 00000
004762
004763
           SET F 00011 00001 11000 00000
004764
           SET F 00011 00000 11000 00000
004765
           SET F 00011 00001 11000 00001
```

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```
004766
           SET F 00011 00000 11000 00000 ;
004767
           SET F 00011 00001 11000 00000 ;
004770
           SET F 00011 00000 11000 00000
004771
           SET F 00011 00001 11000 00000
004772
           SET F 00011 00000 11000 00000
004773
           SET F 00011 00001 11000 00000
004774
           SET E 00011 00000 11000 00000
004775
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000
004776
004777
           SET F 00011 00001 11000 00001
005000
           SET F 00011 00000 11000 00000
005001
           SET F 00011 00001 11000 00000
005002
           SET F 00011 00000 11000 00000
005003
           SET F 00011 00001 11000 00000
005004
           SET F 00011 00000 11000 00000
005005
           SET F 00011 00001 11000 00000
005006
           SET F 00011 00000 11000 00000
005007
           SET F 00011 00001 11000 00000
005010
           SET F 00011 00000 11000 00000
005011
           SET F 00011 00001 11000 00001
005012
           SET F 00011 00000 11000 00000
005013
           SET F 00011 00001 11000 00000
005014
           SET F 00011 00000 11000 00000
005015
           SET F 00011 00001 11010 00000
005016
           SET F 00011 00000 11010 00000
005017
           SET F 00011 00001 11010 00000
005020
           SET F 00011 00000 11010 00000
005021
           SET F 00011 00001 11010 00000
005022
           SET F 00011 00000 11010 00000 ;
005023
           SET F 00011 00001 11010 00001
005024
           SET F 00011 00000 11010 00000
005025
           SET F 00011 00001 11010 00000
005026
           SET F 00011 00000 11010 00000
005027
           SET F 00011 00001 11010 00000
005030
           SET F 00011 00000 11010 00000
005031
           SET F 00011 00001 11010 00000
005032
           SET F 00011 00000 11010 00000 ;
005033
           SET F 00011 00001 11010 00000
005034
           SET F 00011 00000 11010 00000
005035
           SET F 00011 00001 11010 00001 ,
005036
           SET F 00011 00000 11010 00000
005037
           SET F 00011 00001 11010 00000
           SET F 00011 00000 11010 00000
005040
005041
           SET F 00011 00001 11010 00000 ;
005042
           SET F 00011 00000 11010 00000 ;
005043
           SET F
                 00011 00001 11010 00000 7
           SET F 00011 00000 11010 00000
005044
005045
           SET F 00011 00001 11010 00000
005046
           SET F 00011 00000 11010 00000
005047
           SET F 00011 00001 11010 00001 2
005050
           SET F 00011 00000 11010 00000
005051
           SET F 00011 00001 11010 00000
005052
           SET F 00011 00000 11010 00000
005053
           SET F
                 00011 00001 11010 00000
005054
           SET F 00011 00000 11010 00000
005055
           SET F 00011 00001 11010 00000 A
005056
           SET F 00011 00000 11010 00000
005057
           SET F 00011 00001 11010 00000
005060
           L6@ SET F 00011 00000 11010 00000 ;
```

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```
005061
           ENABLE DB. MB ;
005061
           S7@ SET F 00101 00001 00110 00001 ;
005062
           SET F 00101 00000 00110 00000 ;
005063
           SET F 00101 00001 00110 00000
005064
           SET F 00101 00000 00110 00000
005065
           SET F 00101 00001 00110 00000
005066
           SET F 00101 00000 00110 00000
005067
           SET F 00101 00001 00110 00000
005070
           SET F 00101 00000 00110 00000
005071
           SET F 00101 00001 00110 00000
005072
           SET F 00101 00000 00110 00000
005073
           SET F 00101 00001 00110 00001
005074
           SET F 00101 00000 00110 00000
005075
           SET F 00101 00001 00110 00000
005076
           SET F 00101 00000 00110 00000
005077
           SET F 00101 00001 00110 00000
005100
           SET F 00101 00000 00110 00000
           SET F 00101 00001 00010 00000
005101
005102
           SET F 00101 00000 00010 00000
005103
           SET F 00101 00001 00010 00000
005104
           SET F 00101 00000 10010 00000
005105
           SET F 00101 00001 11000 00011
005106
           SET F 00101 00000 11000 00000
005107
           SET F 00101 00001 11000 00000
005110
           SET F 00101 00000 11000
                                    00000
005111
           SET F 00101 00001 11000
                                    00000
005112
           SET F 00101 00000 11000 00000
005113
           SET F 00101 00001 11000
                                    00000
005114
           SET F 00101 00000 11000 00000
005115
           SET F 00101 00001 11000 00000
005116
           SET F 00101 00000 11000 00000
           SET F 00101 00001 11000 00001
005117
005120
           SET F 00101 00000 11000 00000
005121
           SET
               F 00101 00001 11000 00000
005122
           SET F 00101 00000 11000 00000
005123
           SET F 00101 00001 11000 00000
005124
           SET F 00101 00000 11000 00000
005125
               F 00101 00001 11000 00000
           SET
005126
           SET F 00101 00000 11000 00000
005127
           SET F 00101 00001 11000 00000
005130
           SET F 00101 00000 11000 00000
005131
           SET F 00101 00011 11000 00001
005132
           SET F 00101 00010 11000 00000
005133
           SET F 00101 00011 11000 00000
005134
           SET F 00101 00010 11000 00000
005135
           SET F 00101 00011 11000 00000
005136
           SET F 00101 00010 11000 00000
005137
           SET F 00101 00011 11000 00000
005140
           SET F 00101 00010 11000 00000
005141
           SET F 00101 00011 11000 00000
005142
           SET F 00101 00010 11000 00000
005143
           SET F 00101 00011 11000 00001
           SET F 00101 00010 11000 00000
005144
005145
           SET F 00101 00011 11000 00000
005146
           SET F
                 00101 00010 11000
                                    00000
005147
           SET F
                 00101 00011 11000 00000
005150
           SET F
                 00101 00010 11000
                                    00000
005151
           SET F
                 00101 00011 11000 00000
           SET F 00101 00010 11000 00000 ;
005152
```

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```
005153
           SET F 00101 00011 11000 00000 ;
005154
           SET F 00101 00010 11000 00000 ;
005155
           SET F 00101 00001 11000 00001 ;
005156
           SET F 00101 00000 11000 00000
005157
           SET F 00101 00001 11000 00000
005160
           SET F 00101 00000 11000 00000
005161
           SET F 00101 00001 11000 00000 ;
005162
           SET F 00101 00000 11000 00000
005163
           SET F 00101 00001 11000 00000
005164
           SET F 00101 00000 11000 00000
005165
           SET F 00101 00001 11000 00000 7
005166
           SET F 00101 00000 11000 00000 ;
005167
           SET F 00101 00001 11000 00001
005170
           SET F 00101 00000 11000 00000
005171
           SET F 00101 00001 11000 00000;
005172
           SET F 00101 00000 11000 00000 ;
005173
           SET F 00101 00001 11000 00000;
005174
           SET F 00101 00000 11000 00000 ;
005175
           SET F 00101 00001 11000 00000 ;
005176
           SET F 00101 00000 11000 00000;
005177
           SET F 00101 00001 11000 00000
005200
           SET F 00101 00000 11000 00000;
005201
           SET F 00000 00001 11000 00001 ,
005202
           SET F 00000 00000 11000 00000 7
005203
           SET
              F 00000 00001 11000 00000
005204
           SET F 00000 00000 11000 00000
005205
           SET F 00000 00001 11000 00000 ;
005206
           SET F 00000 00000 11000 00000;
005207
           SET F 00000 00001 11000 00000
005210
           SET F 00000 00000 11000 00000 ;
005211
           SET F 00000 00001 11000 00000 ;
005212
           SET F 00000 00000 11000 00000 ;
005213
           SET F 00000 00001 11000 00001
005214
           SET F 00000 00000 11000 00000 ;
005215
           SET F 00000 00001 11000 00000
005216
           SET F 00000 00000 11000 00000
005217
           SET F 00000 00001 11000 00000
005220
           SET F 00000 00000 11000 00000
005221
           SET F 00000 00001 11000 00000
005222
           SET F 00000 00000 11000 00000
005223
           SET F 00000 00001 11000 00000
005224
           SET F 00000 00000 11000 00000
005225
           SET F 00001 00001 11000 00001
005226
           SET F 00001 00000 11000 00000
005227
           SET F 00001 00001 11000 00000 ;
005230
           SET F 00001 00000 11000 00000
           SET F 00001 00001 11000 00000
005231
005232
           SET F 00001 00000 11000 00000
005233
           SET F 00001 00001 11000 00000
           SET F 00001 00000 11000 00000
005234
005235
           SET F 00001 00001 11000 00000
005236
           SET F 00001 00000 11000 00000
005237
           SET F 00001 00001 11000 00001
005240
           SET F 00001 00000 11000 00000
           SET F 00001 00001 11000 00000
005241
005242
           SET F 00001 00000 11000 00000
005243
           SET F 00001 00001 11000 00000
005244
           SET F 00001 00000 11000 00000
           SET F 00001 00001 11000 00000
005245
```

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005246	SET F	00001	00000	11000	00000	i
005247	SET F	00001	00001	11000	00000	i
005250	SET F	00001	00000	11000	00000	,
005251	SET F		00001	11000	00011	i
005252	SET F		00000	11000	00000	;
005253	SET F	0.000	00001	11000	00000	
005254	SET F		00000	11000	00000	i
005255	SET F		00001	11000		i
005256					00000	i
005257			00000	11000	00000	i
			00001	11000	00000	,
005260	SET F		00000	11000	00000	i
005261	SET F		00001	11000	00000	i
005262	SET F		00000	11000	00000	i
005263	SET F		00001	11000	00001	i
005264	SET F	00001	00000	11000	00000	i
005265	SET F	00001	00001	11000	00000	i
005266	SET F	00001	00000	11000	00000	;
005267	SET F	00001	00001	11000	00000	i
005270	SET F	00001	00000	11000	00000	i
005271	SET F	00001	00001	11000	00000	;
005272	SET F		00000	11000	00000	,
005273	SET F	Control Control	00001	11000	00000	;
005274	SET F		00000	11000	00000	;
005275	SET F		01001	11000	00001	,
005276	SET F		01000	11000	00000	
005278			01001			i
		-		11000	00000	i
005300	SET F		01000	11000	00000	i
005301	SET F		01001	11000	00000	,
005302	SET F		01000	11000	00000	i
005303	SET F		01001	11000	00000	i
005304	SET F	00011	01000	11000	00000	i
005305	SET F	00011	01001	11000	00000	i
005306	SET F	00011	01000	11000	00000	i
005307	SET F	00011	01001	11000	00001	;
005310	SET F	00011	01000	11000	00000	i
005311	SET F	00011	01001	11000	00000	;
005312	SET F	00011	01000	11000	00000	į
005313	SET F	00011	01001	11000	00000	,
005314	SET F		01000	11000	00000	;
005315	SET F		01001	11000	00000	;
005316	SET F		01000	11000	00000	;
005317	SET F		01001	11000	00000	
005320			01000	11000		,
005320			00001	11000	00000	i
		The state of the state of		the same of the same	00001	,
005322			00000	11000	00000	i
005323	SET F		00001	11000	00000	i
005324	SET F		00000	11000	00000	,
005325	SET F		00001	11000	00000	i
005326	SET F		00000	11000	00000	i
005327	SET F		00001	11000	00000	j
005330	SET F		00000	11000	00000	i
005331	SET F		00001	11000	00000	j
005332	SET F		00000	11000	00000	i
005333	SET F	00011	00001	11000	00001	i
005334	SET F	00011	00000	11000	00000	i
005335	SET F	00011	00001	11000	00000	į
005336	SET F	00011	00000	11000	00000	i
005337	SET F		00001	11000	00000	,
005340	SET F		00000	11000	00000	,

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```
005341
           SET F 00011 00001 11000 00000 ,
005342
           SET F 00011 00000 11000 00000;
           SET F 00011 00001 11000 00000 ;
005343
005344
           SET F 00011 00000 11000 00000 .
005345
           SET F 00011 00001 11000 00001
           SET F 00011 00000 11000 00000
005344
005347
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000 ;
005350
005351
           SET F 00011 00001 11000 00000;
005352
           SET F 00011 00000 11000 00000 ;
005353
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000 ;
005354
           SET F 00011 00001 11000 00000
005355
           SET F 00011 00000 11000 00000
005356
005357
           SET F 00011 00001 11000 00001 ;
005360
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
005361
005362
           SET F 00011 00000 11000 00000;
005363
           SET F 00011 00001 11000 00000 ,
005364
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
005365
005366
           SET F 00011 00000 11000 00000 ;
005367
           SET F 00011 00001 11000 00000 ;
005370
          SET F 00011 00000 11000 00000 ;
005371
           SET F 00011 00001 11000 00001 ;
005372
           SET F 00011 00000 11000 00000 ;
           SET F 00011 00001 11000 00000 ;
005373
005374
           SET F 00011 00000 11000 00000 ;
005375
           SET F 00011 00001 11000 00000 ;
           SET F 00011 00000 11000 00000 ;
005376
005377
           SET F 00011 00001 11000 00000
005400
           SET F 00011 00000 11000 00000;
           SET F 00011 00001 11000 00000 ;
005401
005402
           SET F 00011 00000 11000 00000;
          SET F 00011 00001 11000 00001
005403
005404
           SET F 00011 00000 11000 00000;
           SET F 00011 00001 11000 00000 ;
005405
           SET F 00011 00000 11000 00000 ;
005404
005407
           SET F 00011 00001 11000 00000 ;
005410
           SET F 00011 00000 11000 00000 ;
005411
           SET F 00011 00001 11000 00000;
           SET F 00011 00000 11000 00000 ;
005412
005413
           SET F 00011 00001 11000 00000;
005414
           SET F 00011 00000 11000 00000;
005415
          L7@ SET F 00011 00001 11000 00011 ;
005416
005416
                     IF SWITCH EQ 7.2 THEN GOTO LOOP ;
005420
                     SET START 0 ;
005420
005421
                     SET MAJOR 1, L6 ;
                     SET MINOR 1, S6, L6 ;
005422
005423
                     ENABLE TEST ;
                                                   REM 6, VDD = C ;
005424
                     FORCE VF2 V2, RNG3;
005424
                                                   REM VDD - B ;
                     SET START 380 ;
005425
005426
                     SET MAJOR 1, L7;
005427
                     SET MINOR 1, S7, L7;
005430
                     ENABLE TEST ,
                                                   REM 7, VDD - B ;
005431
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```
005431
                    IF COMP EQ 5 THEN GOTO VTEST1;
           SKIP:
005433
005433
                      IF COMP EQ 1 THEN BEGIN
005434
                     OUT - 16;
005435
                      SET MB * (15:0) 10000 (40:0); REM OUT 16 - Q6;
005436
                      SET SO V9/ RNG2 /
                                                    REM GP. 2 ;
005437
                      SET S1 V10, KNG2 ;
005440
                      END ;
005440
                      IF COMP EQ 2 THEN BEGIN
005441
                      OUT - 6;
                      SET MB * 00000 10000 (50:0); REM DUT 6 - Q4;
005442
                      SET SO V11, RNG3 /
005443
                                                   REM GP. 3 ;
005444
                      SET S1 V12, RNG2 ;
005445
                      END ;
                      IF COMP EQ 3 THEN BEGIN
005445
005446
                      OUT - 3;
                      SET MB * 00100 (55:0) ,
                                                    REM OUT 3 - ARM ;
005447
005450
                      SET SO V13, RNG3;
                                                    REM GP. 4 ;
005451
                      SET S1 V14, RNG2 ;
005452
                      END ;
005452
                      IF COMP EQ 4 THEN BEGIN
005453
                      OUT - 4;
                      SET MB * 00010 (55:0);
                                                    REM OUT 4 - FIRE ;
005454
005455
                      SET SO V15, RNG3 ;
                                                    REM GP. 5 ;
005456
                      SET S1 V16, RNG2 ;
005457
                      END ;
005457
005457
                      GOTO NEXTO :
                                                    REM LOOP 4 TIMES BEFORE EXIT;
005460
                      WRITE (PASSED FUNC. TEST. 4)
005460
           VIEST1:
005461
005461
                      IF SWITCH NEG 8 THEN GOTO IDDPAT;
           VARD:
005463
                                                                REM VDD (A);
005463
                      FORCE VF2 V1, RNG3;
005464
                      DCL JPINE53/11, 12, 14, 3, 4/;
                                                                REM SP HI, LP HI,
                                                    G32 LO, ARM LO, FIRE HI;
005465
                      DCL UVALE51/-1, 2, -0, 8, -19, 0, -27, 0, -2, 0/;
005445
005466
                      DODLY = 10E-3;
005467
                      SET DELAY DODLY, DO;
005470
005470
           RTN3:
                      CYCLE - CYCLE + 1;
005471
                      FOR I - 1 THRU JPINEOJ DO BEGIN
                      IF - JPINEII;
005472
                      IV - JVALISTA
005473
005474
005474
                      SET PMU SENSE, AUTO,
                      SET PMU FORCEV, AUTO;
005475
005476
005476
                      CALL VDATA(IV, IF);
005477
                      END;
005477
005477
005477
005477
                      IF CYCLE EQ 1 THEN BEGIN
005500
                      DCL JVALE51/-0, 8, -0, 5, -14, 0, -21, 0, -2, 2/;
005501
                      FORCE VF2 V2, RNG3;
                                                                REM VDD (B);
005502
                      GOTO RING;
005503
                      FND:
005503
                                                                615 0552 401
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```
005503
005503
                      IF CYCLE EQ 2 THEN BEGIN
005504
                      DCL JVALISI/-0.7,-0.35,-10.0,-17.0,-2.3/;
005505
                      FORCE VF2 V3, RNG3;
                                                               REM VDD (C);
005506
                      GOTO RING:
005507
                      ENL;
005507
005507
                      COMP - 0;
005510
           REM HDL IDD TEST;
005510
005510
           IDDPAT.
005510
                      XPMU PIN;
005511
                     INSERT HDLP4;
                                                    REM 246 PATTERN LOAD FOR PWR T;
005511
                   REM HDL MOS SCALER PATTERN FOR LOAD 4 "HDLP4" 6/28/74.
005511
005511
                 BY H. S. GILL;
005511
           ENABLE DA MB ;
005511
           SP1@ SET F 00001 01001 00111 00000 ;
005512
           SET F 00001 01000 00111 10000 ;
005513
           SET F 00001 01001 00111 00000 ;
005514
           SET F 00001 01000 00111 10000 ;
005515
           SET F 00001 01001 00111 00000 ;
005516
           SET F 00001 01000 00111 10000 ;
005517
           SET F 00001 01001 00111 00000 ;
           SET F 00001 01000 00111 10000 ;
005520
005521
           SET F 00001 01001 00111 00000 ;
005522
           SET F 00001 01000 00111 10000 ;
           SET F 00001 01001 00111 00001 ;
SET F 00001 01000 00111 10000 ;
005523
005524
005525
           SET F 00001 01001 00111 00000 ;
           SET F 00001 01000 00111 10000 ;
005526
           SET F 00001 01001 00111 00000 ;
005527
005530
           SET F 00001 01000 00111 10000 ;
005531
           SET F 00001 01001 00011 00000 ;
           SET F 00001 01000 00011 10000 ;
005532
           SET F 00001 01001 00011 00000 ;
005533
005534
           SET F 00001 01000 10011 10000 ;
           SET F 00001 01001 11011 00001 ;
005535
           SET F 00001 01000 11011 00000;
005536
           SET F 00001 01001 11011 10000 ;
005537
           SET F 00001 01000 11011 10000 ;
005540
           SET F 00001 01001 11011 00000 ;
005541
005542
           SET F 00001 01000 11011 00000 ;
           SET F 00001 01001 11011 10000 ;
005543
005544
           SET F 00001 01000 11011 10000 ,
           SET F 00001 01001 11011 00000 ;
005545
           SET F 00001 01000 11011 00000 ;
005546
           SET F 00001 01001 11011 10001
005547
005550
           SET F 00001 01000 11011 10000 ;
005551
           SET F 00001 01001 11011 00000 ;
           SET F 00001 01000 11011 00000 ;
005552
           SET F 00001 01001 11011 10000 ;
005553
005554
           SET F 00001 01000 11011 10000 ;
           SET F 00001 01001 11011 00000 ;
005555
005556
           SET F 00001 01000 11011 00000 ,
           SET F 00001 01001 11011 10000 ;
005557
005560
           SET F 00001 01000 11011 10000 ;
005561
           SET F 00001 01011 11011 00001 ;
           SET F 00001 01010 11011 00000 ;
005562
```

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```
005563
           SET F 00001 01011 11011 10000 ;
005564
           SET F 00001 01010 11011 10000 ;
005565
           SET F 00001 11011 11001 10000 ;
005566
           SET F 00001 11010 11001 10000 ;
005567
           SET F 00001 01011 11011 10000 ;
005570
           SET F 00001 01010 11011 10000
005571
           SET F 00001 11011 11001 10000 ;
005572
           SET F 00001 11010 11001 10000 ;
           SET F 00001 01011 11011 10001 ;
005573
005574
           SET F 00001 01010 11011 10000 ;
005575
           SET F 00001 11011 11001 10000 ;
           SET F 00001 11010 11001 10000 ;
005576
005577
           SET F 00001 01011 11011 10000
005600
           SET F 00001 01010 11011 10000
005601
           SET F 00001 11011 11001 10000 ;
           SET F 00001 11010 11001 10000 ;
SET F 00001 01011 11011 10000 ;
005602
005603
005604
           SET F 00001 01010 11011 10000 ;
           SET F 00000 11011 11001 10001 ;
005605
005606
           SET F 00000 01010 11001 10000
005607
           SET F 00000 01011 11011 10000 ;
005610
           SET F 00000 01010 11011 10000 ;
005611
           SET F 00000 11011 11001 10000 ;
005612
           SET F 00000 01010 11001 10000 ;
005613
           SET F 00000 01011 11011 10000
005614
           SET F 00000 01010 11011 10000 ;
           SET F 00000 11011 11001 10000 /
005615
005616
           SET F 00000 01010 11001 10000 ;
005617
           SET F 00000 01011 11011 10001
           SET F 00000 01010 11011 10000 ;
SET F 00000 11011 11001 10000 ;
005620
005621
005622
           SET F 00000 01010 11001 10000 ;
005623
           SET F 00000 01011 11011 10000 ;
005624
           SET F 00000 01010 11011 10000 ;
005625
           SET F 00000 11011 11001 10000 .
           SET F 00000 01010 11001 10000 ;
005626
005627
           SET F 00000 01011 11011 10000 ;
005630
           SET F 00000 01010 11011 10000 ;
005631
           SET F 00001 11011 11001 10001 ;
005632
           SET F 00001 11010 11001 10000 ;
           SET F 00001 01011 11011 10000 ;
005633
005634
           SET F 00001 01010 11011 10000 ;
005635
           SET F 00001 11011 11001 10000 ;
005636
           SET F 00001 11010 11001 10000 ;
           SET F 00001 01011 11011 10000 ;
005637
005640
           SET F 00001 01010 11011 10000 ;
005641
           SET F 00001 11011 11001 10000 ;
005642
           SET F 00001 11010 11001 10000 ;
005643
           SET F 00001 01011 11011 10001 ;
005644
           SET F 00001 01010 11011 10000 ;
005645
           SET F 00001 11011 11001 10000 ;
005646
           SET F 00001 11010 11001 10000
005647
           SET F 00001 01011 11011 10000 ;
005650
           SET F 00001 01010 11011 10000 ;
005651
           SET F 00001 11011 11001 10000 ;
005652
           SET F 00001 11010 11001 10000 ;
005653
           SET F 00001 01011 11011 10000 ;
007/54
           SET F 00001 01010 11011 10000 ;
           SET F 00001 00011 11001 10011 ;
005655
```

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```
005656
           SET F 00001 00010 11001 10000 ;
005657
           SET F 00001 00011 11011 10000 ,
005860
           SET F 00001 00010 11011 10000 ;
005661
           SET F 00001 00011 11001 10000 .
005662
           SET F 00001 00010 11001 10000 ;
005663
           SET F 00001 00011 11011 10000 ;
005664
           SET F 00001 00010 11011 10000 .
005665
           SET F 00001 00011 11001 10000 ,
005666
           SET F 00001 00010 11001 10000 ;
005667
           SET F 00001 00011 11011 10001 ,
005670
           SET F 00001 00010 11011 10000 ;
005671
           SET F 00001 00011 11001 10000;
005672
           SET F 00001 00010 11001 10000 .
005673
           SET F 00001 00011 11011 10000 ;
005674
           SET F 00001 00010 11011 10000 ;
005675
           SET F 00001 00011 11001 10000 ,
005676
           SET F 00001 00010 11001 10000 ;
           SET F 00001 00011 11011 10000 ;
005677
005700
           SET F 00001 00010 11011 10000 ;
005701
           SET F 00001 11011 11001 10001 .
005702
           SET F 00001 11010 11001 10000 ;
005703
           SET F 00001 01011 11011 10000
005704
           SET F 00001 01010 11011 10000 ;
005705
           SET F 00001 11011 11001 10000 ;
           SET F 00001 11010 11001 10000 ;
005706
           SET F 00001 01011 11011 10000 ;
005707
005710
           SET F 00001 01010 11011 10000 ;
005711
           SET F 00001 11011 11001 10000 ;
005712
           SET F 00001 11010 11001 10000 ;
005713
           SET F 00001 01011 11011 10001 .
           SET F 00001 01010 11011 10000 ;
005714
005715
           SET F 00001 11011 11001 10000 ;
           SET F 00001 11010 11001 10000 ;
005716
005717
           SET F 00001 01011 11011 10000 ;
005720
           SET F 00001 01010 11011 10000 ;
005721
           SET F 00001 11011 11001 10000 ,
005722
           SET F 00001 11010 11001 10000 ;
005723
           SET F 00001 01011 11011 10000
005724
           SET F 00001 01010 11011 10000 ;
005725
           SET F 00001 11011 11001 10001 ;
005726
           SET F 00001 11010 11001 10000 /
005727
           SET F 00001 01011 11011 10000 ;
005730
           SET F 00001 01010 11011 10000 ;
           SET F 00001 11011 11001 10000 ;
005731
005732
           SEL F 00001 11010 11001 10000 ;
           SET F 00001 01011 11011 10000 ;
005733
005734
           SET F 00001 01010 11011 10000 ;
           SET F 00001 11011 11001 10000 ;
005735
           SET F 00001 11010 11001 10000 ;
005736
005737
           SET F 00001 01011 11011 10001
005740
           SET F 00001 01010 11011 10000 ;
           SET F 00001 11011 11001 10000 ;
005741
005742
           SET F 00001 11010 11001 10000 ;
005743
           SET F 00001 01011 11011 10000 ;
           SET F 00001 01010 11011 10000 ,
005744
005745
           SET F 00001 11011 11001 10000 ;
005746
           SET F 00001 11010 11001 10000 ;
005747
           SET F 00001 01011 11011 10000 ;
005750
           SET F 00001 01010 11011 10000 ;
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```
SET F 00101 01001 00111 00001 ;
005751
005752
           SET F 00101 01000 00111 10000
005753
           SET F 00101 01001 00111 00000
005754
           SET F 00101 01000 00111 10000
005755
           SET F 00101 01001 00111 00000
005756
           SET F 00101 01000 00111 10000
005757
           SET F 00101 01001 00111 00000
           SET F 00101 01000 00111 10000
005760
005761
           SET F 00101 01001 00111 00000 ;
           SET F 00101 01000 00111 10000
005762
005763
           SET F 00101 01001 00111 00001 ;
005764
           SET F 00101 01000 00111 10000 ;
005765
           SET F 00101 01001 00111 00000 ;
           SET F 00101 01000 00111 10000
005766
005767
           SET F 00101 01001 00111 00000 ;
005770
           SET F 00101 01000 00111 10000 ;
           SET F 00101 01001 00111 00000
005771
005772
           SET F 00101 01000 00111 10000 ;
005773
           SET F 00101 01001 00111 00000 ;
           SET F 00101 01000 00111 10000
005774
005775
           SET F 00101 01001 00111 00001
           SET F 00101 01000 00111 10000
005776
005777
           SET F 00101 01001 00111 00000 ;
000000
           SET F 00101 01000 00111 10000 ;
006001
           SET F 00101 01001 00111 00000
006002
           SET F 00101 01000 00111 10000
           SET F 00101 01001 00111 00000 .
006003
006004
           SET F 00101 01000 00111 10000
006005
           SET F 00101 01001 00111 00000 ;
006006
           SET F 00101 01000 00111 10000 ;
006007
           SET F 00101 01001 00111 00001
006010
           SET F 00101 01000 00111 10000
006011
           SET F 00101 01001 00111 00000 ;
           SET F 00101 01000 00111 10000 ;
006012
006013
           SET F 00101 01001 00111 00000 ,
006014
           SET F 00101 01000 00111 10000 ,
           SET F 00101 01001 00111 00000 .
006015
006016
           SET F 00101 01000 00111 10000
006017
           SET F 00101 01001 00111 00000
006020
           SET F 00101 01000 00111 10000 ;
006021
           SET F 00101 01001 00111 00011 ;
           SET F 00101 01000 00111 10000
006022
006023
           SET F 00101 01001 00111 00000
006024
           SET F 00101 01000 00111 10000 ;
           SET F 00101 01001 00111 00000
006025
           SET F 00101 01000 00111 10000 .
006026
006027
           SET F 00101 01001 00111 00000
008030
           SET F 00101 01000 00111 10000 ;
           SET F 00101 01001 00111 00000 ;
006031
006032
           SET F 00101 01000 00111 10000
006033
           SET F 00101 01001 00111 00001 ;
006034
           SET F 00101 01000 00111 10000
           SET F 00101 01001 00111 00000
006035
006036
           SET F 00101 01000 00111 10000
006037
           SET F 00101 01001 00111 00000
006040
           SET F 00101 01000 00111 10000 ;
006041
           SET F 00101 01001 00111 00000 ;
006042
           SET F 00101 01000 00011 10000 ;
006043
           SET F 00101 01001 00011 00000
```

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```
006044
           SET F 00101 01000 10011 10000 ;
006045
           SET F 00101 01001 11011 00001 7
006046
           SET F 00101 01000 11011 00000 ;
006047
           SET F 00101 01001 11011 10000 ;
006050
           SET'F 00101 01000 11011 10000 ;
006051
           SET F 00101 01001 11011 00000 ;
006052
           SET F 00101 01000 11011 00000 ;
006053
           SET F 00101 01001 11011 10000 ;
006054
           SET F 00101 01000 11011 10000 ,
           SET F 00101 01001 11011 00000 ;
006055
006056
           SET F 00101 01000 11011 00000 ;
           SET F 00101 01001 11011 10001 ;-
006057
           SET F 00101 01000 11011 10000 ;
SET F 00101 01001 11011 00000 ;
006060
006061
006062
           SET F 00101 01000 11011 00000 ;
006063
           SET F 00101 01001 11011 10000;
           SET F 00101 01000 11011 10000 ;
006064
006065
           SET F 00101 01001 11011 00000 ;
006066
           SET F 00101 01000 11011 00000 ;
           SET F 00101 01001 11011 10000 ;
006067
006070
           SET F 00101 01000 11011 10000 ;
006071
           SET F 00101 01011 11011 00001;
006072
           SET F 00101 01010 11011 00000 ;
006073
           SET F 00101 01011 11011 10000 ;
           SET F 00101 01010 11011 10000 ;
00/5074
006075
           SET F 00101 11011 11001 10000
006076
           SP2@ SET F 00101 11010 11001 10000 ;
006077
006077
                      SET DA * 1100101111 0010101000;
006100
                      SET MB * (60:0);
006101
                      FORCE VF2 V1, RNG3;
                                                   REM VDD 'A' . .
006102
                      SET MAJOR 1, SP2,
                      SET MINOR 1, SP1, SP2;
006103
006104
                      ENABLE TEST /
                                                    REM TEST AT PATT. 246;
006105
006105
                      IF SWITCH NEW 8 THEN GOTO VEASS;
006107
           VTEST2:
                      FORCE VF2 V1, RNG3;
                                                                REM VDD (A);
006110
                      DCL KPINE31/16, 6, 3/;
                                                     REM Q6 HI, Q4 HI, ARM HI;
006111
                      DCL KVAL[3]/0, -. 72, -. 28/;
           RTN4:
006112
                      CYCLE - CYCLE + 1;
006113
                      FOR I - 1 THRU KPINEOJ DO BEGIN
006114
                      IP - KPINEIJ;
                      IV - KVALEIJ
006115
006116
                      SET PMU SENSE, AUTO;
006116
006117
                      SET PMU FORCEV, AUTO;
006120
006120
                      CALL VDATA(IV, IF);
006121
                      END;
006121
006121
                      IF CYCLE EQ 4 THEN BEGIN
006122
                      DCL KVALESI/0; -. 76, -. 24/;
006123
                      FORCE VF2 V2, RNG3;
                                                                REM VDD (B);
006124
                      GOTO RINA;
006125
                      END;
006125
006125
                     IF CYCLE EQ 5 THEN BEGIN
006125
                      DCL KVALE31/0, -. 84, -. 28/;
006126
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```
006127
                        FORCE VF2 V3, RNG3;
                                                                      REM VDD (C);
006130
                        GOTO RTN4;
006131
                        END,
006131
006131
                       SUBR VDATA(IV. IP);
006131
                        FORCE PMU IV;
006132
                        ENABLE RELAY,
006133
                        CPMU PIN IP;
006134
                        DISABLE RELAY:
006135
006135
                        SET PMU SENSE, AUTO;
006136
                        SET PMU FORCEI, AUTO,
006137
006137
                        FORCE PMU O:
006140
                        FORCE DELAY: MEASURE VALUE:
006142
006142
                        ENABLE RELAY;
006143
                        XEMIL PIN:
                        DISABLE RELAY,
006144
006145
                        END:
006145
                        IF SWITCH EQ 1 OR SWITCH EQ 3 THEN GOTO DCTEST; IF SWITCH LT 3 OR SWITCH EQ 8 THEN ON DCT, DCPWR;
006145
            VPASS:
006147
006151
                        XPMU PIN;
                        FORCE VF2 V1, RNG3;
SET PMU SENSE ,RNG3;
ENABLE DC11 GT IAMIN AMPS;
006152
006153
006154
006155
                        ENABLE DCTO LT IAMAX AMPS,
006156
006156
                        FORCE VOLTAGE -27. 6 VOLTS, RNG3;
006157
                        ENABLE RELAY;
006160
                        CPMU PIN 1;
006161
                        DISABLE RELAY;
006162
                        FORCE DELAY: MEASURE VALUE;
                        ENABLE RELAY,
006164
006165
                        XPMU PIN:
006.166
                        DISABLE RELAY:
                        FORCE VOLTAGE O. O. RNG3;
006167
006170
                        WRITE 'PASSED DO POWER TEST,';
DISABLE DCT1;
006170
006171
006172
                        DISABLE DOTO:
006173
                        IF SWITCH NEW 8 THEN GOTO DCTEST;
006173
                        FORCE VF2 V1, RNG3;
SET F 00001 01001 00111 00000;
006175
            VTESTS:
                                                                     REM VDD (A);
006176
006177
                        ENABLE TEST;
006200
                        SET PMU SENSE, RNGS;
006201
                        FORCE CURRENT O, RNGO;
006202
                        DCL LPINE6J/11, 12, 16, 14, 6, 4/;
                                                             REM SP LO, LP LO, Q6 LO,
006203
                                                                    G32 HI, Q4 LO, FIRE LO;
006203
                        CYCLE - CYCLE + 1)
FOR I - 1 THRU LPINEOJ DO BEGIN
006203
            RTN5:
006204
006205
                        CPMU PIN LPINCIJ;
006206
                        FORCE DELAY,
006207
                        MEASURE VALUE;
006210
                        END;
                                                                         615 0552 401
006210
```

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```
IF CYCLE EQ 7 THEN BEGIN
FORCE VF2 V2, RNG3,
006210
006211
                                                                  REM VDD (B),
006212
                      END,
006212
006212
                       IF CYCLE EQ 7 THEN GOTO RTNS;
006214
                      IF CYCLE EQ 8 THEN BEGIN
006215
                      FORCE VF2 V3, RNG3,
                                                                  REM VDD (C);
006216
                      END,
006216
006216
                      IF CYCLE EQ 8 THEN GOTO RING;
006220
006220
                      CYCLE - O:
006221
           DOTEST:
           REM BREAKDOWN VOLTAGE TEST, DATA INPUTS, PP. A2. 1;
006221
                      XPMU PIN
006221
                      FORCE VF2 V3, RNG3;
IF SWITCH EQ 5 THEN GOTO FPASS;
006222
006223
006225
                       IF SWITCH LT 3 OR SWITCH EQ 8 THEN ON DCT, DCBVOL;
006227
                       FORCE CURRENT O, RNG1;
                      SET DA * (60:1);
SET MA * (60:0);
DCDLY = 10E-3;
006230
006231
006232
                       SET DELAY DODLY, DO;
006233
006234
                      DCL MPINE61/5, 7, 9, 10, 13, 15/;
006235
                       SET PMU SENSE, RNG3;
                       VBRK - -28.0;
006236
006237
                       ENABLE DOTO GT VERK VOLTS:
006240
                       FOR I - 1 THRU MPINEOJ DO BEGIN
006241
                       CEMU PIN MPINCII;
006242
                       FORCE CURRENT -10E-6, RNG1;
006243
                       FORCE DELAY:
006244
                       MEASURE VALUE;
006245
                      FORCE CURRENT O. O. RNG1;
006246
                       IF BPASS EQ 1 THEN
                       WRITE
                                MPINIIJ, VALUE,
006247
006250
                       END;
                       XEMU PIN :
006250
006251
                       SET R [9]1;
                       ENABLE DCTO GT & VOLTS ;
006252
006253
                       CPMU PIN 9.
006254
                       FORCE CURRENT 3E-3, RNG2;
006255
                       FORCE DELAY;
006256
                       MEASURE VALUE;
006257
                       FORCE CURRENT O, RNG2;
                       IF BPASS EQ 1 THEN
006260
006261
                       WRITE
                                      94, VALUE,
006262
                       XPMU PIN ;
006263
                       SET R (60:0);
006264
                       WRITE "PASSED DO BREAKDOWN VOL. TEST. "
006265
                       IF SWITCH LT 3 OR SWITCH EQ 8 THEN GOTO FPASS
                       ELSE GOTO CTEST ;
006267
006270
006270
           LOOP
006270
                  SCOPE LOOP :
           REM
006270
                       IF SWITCH EQ 7 THEN BEGIN
006271
                       SET MAJOR 1/ L2 /
006272
                       SET MINOR 1, S1, L2;
006273
                       END
006273
                       IF SWITCH EQ 7. 1 THEN BEGIN
                                                                    615 0552 401
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```
006274
                       SET MAJOR 1, L3 ;
                       SET MINOR 1, S3, L3 ;
006275
006276
                       END ;
006276
                       IF SWITCH EQ 7. 2 THEN BEGIN
                       SET MAJOR 1, L7;
006277
                       SET MINOR 1, S6, L7 ;
006300
006301
                       END .
006301
                       X - O;
006302
                       AT X ; SET FI[59]1 ;
006304
                       ENABLE TEST CONTIN ;
006305
                       PAUSE 1 ;
906309
                       ENABLE TEST MOMENT ;
006307
                       GOTO ABORT :
006310
006310
            CTEST:
006310
                  CONTINUITY TEST ;
            REM
006310
                       DCL IFINE151/1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16/;
006311
                       DCL SPIN(14)/2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16/;
006312
                       CONN DPS1 8,60 ;
                                                        REM GND, ESSW ;
006313
006313
                       INSERT FINISH:
006313
            REM
                       *****
006313
                       FINISH
                                           7/30/75.
006313
                       ****
006313
            REM CONTINUITY TEST;
                       DCDLY = 1E-3;
ICONT = -10E-3;
006313
006314
006315
                        IOPEN = 2E-6;
                        ISHORT = 1E-3;
006316
                        VFC = -1.5;
006317
                       XPMU PIN;
006320
006321
                       SET DELAY DODLY, DO;
006322
006322
                        FORCE EO O. O. RNG2; FORCE E1 O. O. RNG2;
                       FORCE EBO O. O. RNG2; FORCE EB1 O. O. RNG2;
006324
                        FORCE EAO 0. 0, RNG2; FORCE EA1 0. 0, RNG2;
006326
                        FORCE ECO O. O. RNG2; FORCE EC1 O. O. RNG2;
006330
                        FORCE VF1 0.0, RNG2;
006332
                       FORCE VF2 0. 0, RNG2;
006333
006334
                        FORCE VF3 0.0, RNG2;
006335
                        XCON VF2;
                                   XCON VF3;
006337
                        SET R * (60:0);
006340
                        SET S # (60:0);
006341
                        SET DA # (60:1);
006342
                        SET MA * (60:0);
006343
                       ENABLE DA, MA;
006343
                        SET F * (60:0);
006344
                        ENABLE TEST;
006345
006345
                       IF SWITCH EQ 1 OR SWITCH EQ 5 THEN BEGIN
006346
                       FORCE CURRENT O. O. RNG3;
006347
                        ENABLE RELAY;
006350
                        CPMU PIN 60;
006351
                       DISABLE RELAY;
                       SET CLAMP NEG 4. 5;
SET PMU SENSE, RNG2;
006352
006353
                       FORCE CURRENT ICONT, RNG3;
FORCE DELAY; MEASURE VALUE;
IF VALUE LT VFC THEN VFC - VALUE;
006354
006355
006357
                                                                        615 0552 401
```

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```
006361
                         FORCE CURRENT O. O. RNG3;
006362
                         WRITE '* VFC - ', VFC,
006363
                         END;
006363
                         XPMU PIN:
006364
                         SET CLAMP OFF;
006365
             DP:
006365
                         IF SWITCH LT 3 THEN ON DCT, OPEN;
006365
                         SET DELAY 0.0, DC;
FORCE V-1 VFC, RNG2;
FORCE VOLTAGE 0.0, RNG2;
006367
006370
006371
006372
                         SET PMU SENSE, RNG1,
ENABLE DCTO LT IOPEN,
006373
006374
                         DODLY - SE-3;
006375
006375
                         FOR I - 1 THRU IPINEOJ DO BEGIN
                         CPMU PIN IPINCID;
006376
006377
                         SET DELAY DODLY, DO,
                         FORCE DELAY, MEASURE VALUE,
006400
006402
                         SET DELAY O. O. DC;
006403
                         END;
006403
                         FORCE CURRENT OF
006404
                         XPMU PING
006405
006405
             SH:
006405
                         IF SWITCH LT 3 THEN ON DCT, SHORT;
                         VFC = -0.2;
DCDLY = 10E-3;
006407
006410
                         SET DELAY O. O. DC;
006411
006412
                         FORCE EO VFC, RNG2;
                         FORCE VF1 VFC, RNG2;
006413
006414
                         FORCE VOLTAGE 0. 0, RNG1;
006415
                         SET PMU SENSE, RNG2.
                         ENABLE DCTO GT ISHORT;
006416
006417
006417
                         FOR I - 1 THRU SPINCOJ DO BEGIN
                         CPMU PIN SPINCID;
006420
                         SET DELAY DODLY, DO;
006421
                         FORCE DELAY; MEASURE VALUE;
SET DELAY 0. 0, DC;
006422
006424
006425
                         END;
006425
                         FORCE CURRENT O;
006426
                         XEMU PIN:
006427
                         GLOBS = 0; GLOB6 = 0; WRITE <* COMPLETED CONTINUITY TEST. *<;
006427
006431
006432
                         IF SWITCH LT 3 THEN GOTO FCFAIL
006434
                         ELSE GOTO ABORT,
006435
006435
             OPEN:
                         GLOBS - GLOBS + 1B;
                                                            REM 1ST 4 BITS:
006436
                         GOTO RTN2;
006437
             SHORT
                         GLOB5 = GLOB5 + 20B;
                                                            REM 2ND 4 BITS;
006440
                         GLOBS - GLOBS + 400B; REM 3RD 4
IF (GLOBS AND 4000B) NEQ 0 THEN BEGIN
FOR I - 1 THRU 8 DO BEGIN
                                                            REM SRD 4 BITS:
006440
             RTN2:
006441
006442
                         WRITE (EIR) O;
006443
006444
                         WRITE (EIR) 1777B;
006445
                         END,
```

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```
OPP - GLOBS AND 17B;
SHP - (GLOBS AND 0360B)/10000B;
006445
006446
006447
                        IF GLOBS EQ O THEN BEGIN
006450
                        WRITE (LP)
                        WRITE (LP) ** OPENS = 1, OPP, ** SHORTS = 1, SHP;
006451
004452
                        END;
                        IF GLOBS EQ 1 THEN BEGIN
006452
006453
                        WRITE (TTP)
006454
                        WRITE (TTP) ** OPENS = ", OPP, "* SHORTS = ", SHP;
006455
                        END;
006455
                        GLOB2 - GLOB2 - 1;
006456
                        GLOB5 = 0;
                        IF SWITCH EQ 1 THEN GLOB13 - GLOB13 + 1;
004457
                        WRITE (EIR) OB:
006461
006462
                        GOTO ENND;
                        END:
006463
006463
                        GOTO CIFAIL ;
006464
                        GLOB7 - GLOB7 + 1;
GLOB5 - 0;
006464
            FPASS:
                                                         REM TEST PASS COUNTER:
004445
006466
                        IF (GLOB1 AND 77B) LT 77B THEN GLOB1 - GLOB1+1;
                        WRITE (* PASSED TEST. */;
WRITE (EIR) BIN[1];
006470
006471
006472
                        GCTO ABORT:
006473
006473
            CIFAIL:
                        IF (SWITCH GT 2 AND SWITCH LT 3) AND GLOB6 EQ O
006474
                        THEN BEGIN
006474
                        WRITE (EIR) BIN[2];
                        GLOB6 - 1;
GLOB2 - GLOB2 - 1;
006475
006476
006477
                        GOTO ENND,
006500
                        END;
006500
                        GLOB6 - 0;
                        GLOBS - GLOBS + 1;
006501
                                                         REM CONT. FAILURE COUNTER;
006502
                        IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 - GLOB1+10000B;
006504
                        WRITE (EIR) BINES];
006505
                        WRITE "* FAILED CONT. TEST. *";
                        GOTO ABORT:
006506
006507
006507
            FCFAIL:
                        GLOB9 - GLOB9 + 1;
                                                         REM FUNC. FAILURE COUNTER;
006510
                        IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 - GLOB1+10000B;
                        WRITE (EIR) BIN[4];
WRITE '* FAILED FUNC. TEST. *';
006512
006513
006514
                        GOTO ABORT;
006515
                        GLOB10 = GLOB10 + 1;
006515
            DOLEAK:
                                                         REM LEAKAGE TEST FAIL COUNTER;
006516
                        IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 - GLOB1+10000B;
                        WRITE (EIR) BIN[5];
WRITE ** FAILED DC LEAKAGE TEST. **;
006520
006521
                        GOTO ABORT:
006522
006523
006523
            DOBVOL:
                        GLOB11 - GLOB11 + 1;
                                                         REM B. VOL FAIL COUNTER;
006524
                        IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 - GLOB1+10000B;
                        WRITE (EIR) BINL5];
WRITE '* FAILED DC BREAKDOWN VOL. TEST.*/;
006526
006527
006530
                        GOTO ABORT;
006531
                        GLOB12 GLOB12 + 1; REM TRIP FAILURE COUNTER; IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006531
            TRIPEL
006532
```

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		Page 63
006624		615 0552 401
006623		ON DCT, DUMF; ENABLE DCTO LT SOE-3;
006622		The second secon
		WRITE (EIR) BINESI;
006620		IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006617	בייייייייייייייייייייייייייייייייייייי	GLOBIS - GLOBIS + 1; REM DC ROFF FAILURE COUNTER;
008617	DOROOF:	
006616		OUTO MEONTA
006615 006616		GOTO ABORT;
006614		WRITE (EIR) BINISJ; WRITE (FAILED LINK/VER RES IMPEDANCE TEST. (;
006612		IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006611		GLOB17 - GLOB17 + 1; REM DC RES IMP. FAILURE COUNTER;
006611	DORES:	CLODIT - CLODIT - 1 . DEM DO DEC IND. EATURE COUNTED
006611	DODEC.	
006610		GOTO ABORT:
006607		WRITE ** FAILED DC INPUT PULL UP RES. TEST. **;
008806		WRITE (EIR) BINESJ;
008804		IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006603	DORESI:	GLOB17 - GLOB17 + 1; REM DC PULL UP RES. FAIL COUNTER;
008803	DOLLES T	CLODAZ - CLODAZ - 1
006602		GOTO ABORT;
006601		WRITE 'FAILED DO PWR TEST. ';
006600		WRITE (EIR) BIN(5);
006576		IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006575	DCPWR:	GLOB16 - GLOB16 + 1; REM DC PWR FAIL COUNTER;
006575	DOD!	CLODAL CLODAL A L. DEM DC DUD LATE COUNTER
006574		BUTU ABUKT,
		GOTO ABORT;
006573		WRITE (EIR) BINLS); WRITE (FAILED DC OUTPUT LEAKAGE TEST. (;
006572		WRITE (EIR) BINEST:
006570	LOUINGT.	IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006567	DCLKOT:	GLOBIS - GLOBIS + 1; REM DC OUTPUT LEAK FAIL COUNT;
006567		swim newill
006566		GOTO ABORT;
006565		WRITE (FAILED DC INPUT LEAKAGE TEST. (;
006564		WRITE (EIR) BIN[5];
006562	LICENTIA.	IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 - GLOB1+10000B;
006561	DOLKIN:	GLOB14 = GLOB14 + 1; REM DC INPUT LEAK FAIL, COUNT;
006561		
006560		GOTO ABORT,
006557		WRITE (* FAILED DO IIL TEST. */;
006556		WRITE (EIR) BIN[5],
006554	DOTTE.	IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006553	DOLIE:	GLOBIS = GLOBIS + 1; REM DC IIL FAILURE COUNTER;
006553		OCTO RECITI
006552		GOTO ABORT;
006551		WRITE (* FAILED DO VOH TEST. */;
006546		IF (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B; WRITE (EIR) BINES];
006546	DCVOH.	
006545	DCVOH:	GLOB17 = GLOB17 + 1; REM DC VOH FAILURE COUNTER;
006544 006545		GOTO ABORT:
006543		WRITE (* FAILED DO VOL TEST, */;
006542		WRITE (EIR) BINES];
006540		1F (GLOB1 AND 770000B) LT 770000B THEN GLOB1 = GLOB1+10000B;
006537	DOVOL:	GLOB19 = GLOB19 + 1; REM DC VOL FAILURE COUNTER;
004537	Treatment.	CLODIO - CLODIO - 1 PEN DO UM BATURO CONTES
006536		GOTO ABORT.
006535		WRITE * FAILED CURRENT TRIP TEST. **;
006534		WRITE (EIR) BINE7];

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```
006625
                    SET PMU SENSE, RNG3;
                    FORCE VOLTAGE O. O. RNG1;
006626
006627
                    CPMU PIN 59; MEASURE VALUE;
          DUME
006631
                     WRITE 'FAILED DC ROFF TEST. ';
006631
                     GOTO ABORT:
006632
006633
                    WRITE (TTP) ************************
          WAFSMRY:
006633
                     WRITE (TTP) '*-----OPERATOR NOTE-----*;
006634
006635
                     WRITE (TTP) **TYPE THE WAFER LOT # TESTED**;
                    WRITE (TTP) ********************
006636
008637
006637
                     READ (TTK) V[15];
                                                 REM WAFER LOT # /
006640
006640
                    WRITE (TTP) ******************************
                    WRITE (TTP) '*-----**'; WRITE (TTP) '*TYPE THE NUMBER OF WAFERS TESTED IN THE LOT*';
006641
006642
                     008843
006644
006644
                     READ (TTK) V[16];
                                                 REM # OF WAFERS TESTED;
                    V[17] = V[16] * V[5];
V[18] = V[17] = GLOB7;
006645
                                                 REM TOTAL # OF DIE;
006646
                                                 REM TOT. BAD DIE;
006647
                     V[19] = GLOB7/V[17] * 100; REM WAFER YIELD;
006650
006650
                     WRITE (LP) *******************************
                     WRITE (LP) '* SUMMARY OF WAFER TESTING.
                                                                         # 1;
006651
006652
                     WRITE (LP) ** CHIP CPN *,/35/V[1],/39/*-*,/40/V[2],/44/*-*,
006653
006654
                     /44/V[3];
                     WRITE (LP) '* WAFER LOT #
006654
                                                                1,/35/V[15];
                     WRITE (LP) * WAFERS TESTED AT
006655
                                                                1,/35/V[4],/40/1C1,
006656
                     WRITE (LP) ** NUMBER OF WAFERS TESTED
                                                               1,/35/V[16];
006657
                     WRITE (LP)
                     WRITE (LP) * TOTAL # OF DIE
006660
                                                                1,/35/GL0B2;
                     WRITE (LP) '* TOTAL # OF COMP. DIE
006661
                                                               4,/35/VL171;
                     WRITE (LP) '* TOTAL GOOD DIE
                                                                4./35/GLOB7;
006662
006663
                     WRITE (LP)
                    WRITE (LP) /* # OF DIE FAILED CONT. TEST ///35/GLOB8; WRITE (LP) /* # OF DIE FAILED FUNC. TEST ///35/GLOB9;
006664
006665
                     WRITE (LP) ** # OF DIE FAILED L/V IMP TEST *./35/GLOB17;
006666
                     WRITE (LP) '* WAFER YIELD
                                                                1,/35/V[19];
006667
006670
                     WRITE (LP) *
                                             ***XXXX***
006671
                     GLOB1-0; GLOB2=0; GLOB3-0; GLOB4-0; GLOB5=0; GLOB6-0;
006671
006677
                     GLOB7=0; GLOB8=0; GLOB9=0; GLOB10=0; GLOB11=0; GLOB12=0;
006705
                     GLOB14=0; GLOB15=0; GLOB16=0; GLOB17=0; GLOB18=0; GLOB19=0
006713
006713
                     SWITCH = 1;
006714
                     GOTO ABORT:
006715
                     WRITE (TTP) **********************
          PKGSMRY:
006715
                     WRITE (TTP) /*----*/;
WRITE (TTP) /*TYPE THE PACKAGE LOT # TESTED*/;
006716
006717
006720
                     WRITE (TTP) *********************
006721
006721
                     READ (TTK) V[20];
                                                  REM PKG LOT #;
                     V[21] = GLOB7/GLOB2 * 100;
V[22] = GLOB2 - GLOB7;
006722
                                                  REM PKG YIELD;
006723
                                                  REM PKGS FAILED,
006724
```

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```
006724
                      WRITE (LP) **********************************
                      006725
006726
006727
006727
                      WRITE (LP) * PACKAGE CFN *,/35/V[1],/39/*-*,/40/V[6],/44/*-*,
006730
                      /44/VE71;
006730
                      WRITE (LP) /* PACKAGE LOT #
                                                                     1./35/V[20];
                                   * PACKAGES TESTED AT (,/35/GLOB19,/40//C/;
                       WRITE (LP)
008731
006732
                      WRITE (LP)
006733
                      WRITE (LP) ** TOTAL # OF PACKAGES TESTED *./35/GLOB2; WRITE (LP) ** # OF PACKAGES PASSED *./35/GLOB7;
006734
006735
                                   * # OF PACKAGES FAILED
                       WRITE (LP)
                                                                    4,/35/VE221;
                      WRITE (LP) ( );
WRITE (LP) (* FAILED CONT. TEST
006736
006737
                                                                     1,/35/GLOB8;
006740
                      WRITE (LP) ** FAILED FUNC. TEST
WRITE (LP) ** FAILED LEAKAGE TEST
                                                                     1.735/GLOB9:
006741
                                                                     1,/35/GLOB10;
                       WRITE (LP) '* FAILED VOL. BREAKDOWN TEST
006742
                                                                     1/35/GLOB11;
006743
                      WRITE (LF) < FAILED IN LEAKAGE TEST
WRITE (LF) <- FAILED OUT LEAKAGE TEST
                                                                     1/35/GLOB14;
                                                                     1/35/GLOB15:
006744
006745
                      WRITE (LF) 'S PAILED POWER TEST
                      WRITE (LF) * FAILED DC IMP. TEST WRITE (LF) * FAILED DC ROFF TEST
006746
                                                                     4,/35/GLOB17;
006747
                                                                     4,/35/GLOB18;
006750
                       WRITE (LF)
006251
                       WRITE (LF: "* PACKAGE YIELD
                                                                     4,735/V[21];
006752
                      WRITE (LF)
                                              *****
006753
006753
                       GLOB1-0; GLOB2=0; GLOB3-0; GLOB4-0; GLOB5-0; GLOB6-0;
                      GLOB7-0; GLOB8-0; GLOB9-0; GLOB10-0; GLOB11-0; GLOB12=0;
006761
006767
                       GLOB14-0; GLOB15-0; GLOB16-0; GLOB17-0; GLOB18-0; GLOB19-0
006775
006275
                       SWITCH = 0:
006776
006776
            ABORT:
                      FORCE CURRENT 0. 0;
006777
                       XEMU HIN;
007000
                       HORCE RESET,
007001
                       GOTO ENNO;
007002
007002
007002
            ENNE
                      END ;
0000B COMPILATION ERRS
```

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APPENDIX C

PARAMETRIC RESULTS OF FIRST ARTICLE QUALITY ACCEPTANCE TESTING

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IDD (TERMINAL 1), 1A - SUBGROUP A2, A3, A4 COLLINS DIVISIONS DATE 7-24-75 SCALER BIAS (IDD CURRENT), MA ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devid Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C
7527C	4							-7.21	-4.89	-4.15
7527A	11							-6.94	-4.67	-3.98
7528E	16							-7.26	-4.91	-4.19
7528G	21							-7.50	-5.15	-4.36
7527B	22							-6.70	-4.53	-3.82
7528J	28							-7.11	-4.80	-4.06
7528H	4 8							-7.17	-4.84	-4.07
7528K	50							-7.29	-4.94	-4.19
7527A	51							-8.15	-5.58	-4.75
7527K	53							-6.57	-4.43	-3.75
7 527E	58							-7.41	-5.03	-4.31
7527J	66							-6.68	-4.51	-3.80
7527H	70							-7.95	-5.37	-4.54
7527H	74							-8.11	-5.51	-4.67
7527 E	76							-6.59	-4.47	-3.78
7525B	81							-7.26	-4.95	-4.19
7527C	87							-6.59	-4.68	-3.98
7529K	89							-7.16	-4.87	-4.15
7529B	94							-7.25	-4.94	-4.16
7529H	98					3.00		-6.98	-4.74	-3.99
7529D	110							-7.66	-5.14	-4.37
7529N	114							-7.34	-4.99	-4.20
7529L	118							-6.79	-4.61	-3.89
7529B	122							-7.34	-5.01	-4.23
7529A	133							-6.90	-4.66	3.90

ARM (TERMINAL 3) - SUBGROUP A2, A3, A4 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-76 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V		-27.6V			
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C	
7527C	4	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7527A	11	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.60	-27.56	-27.56	
7528E	16	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7528G	21	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7527B	22	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.64	-27.56	-27.56	
7528J	28	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7528H	48	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7528K	50	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.60	-27.56	-27.56	
7527A	51	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7527K	53	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.64	-27.56	-27.56	
7527E	58	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7527J	66	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.60	-27.56	-27.56	
7527H	70	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7527H	74	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7527E	76	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.60	-27.56	-27.56	
7525B	81	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7527C	87	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.64	-27.56	-27.56	
7529K	89	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.60	-27.56	-27.56	
7529B	94	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.64	-27.56	-27.56	
7529H	98	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.64	-27.56	-27.56	
7529D	110	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7529N	114	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.60	-27.56	-27.56	
7529L	118	-17.04	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7529B	112	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	
7529A	133	-17.00	-17.00	-17.00	-21.56	-21.48	-21.48	-27.56	-27.56	-27.56	

TEST LIMITS = -16.9V to VDD

The same of the sa

ARM (TERMINAL 3) - SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

DATE						-21.5V			-27.6V	
CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C
7527C	4	12	28	32	16	24	28	20	28	32
7527A	11	12	28	32	16	28	28	20	28	28
7528E	16	12	24	28	16	24	28	20	24	28
7528G	21	12	28	32	16	28	32	20	28	32
7527B	22	12	28	36	20	28	32	24	28	32
7528J	28	12	28	32	16	28	28	20	28	32
7528H	48	12	28	36	20	28	32	20	28	32
7528K	50	12	28	32	16	28	32	20	28	32
7527A	51	12	28	32	16	28	28	20	28	32
7527K	53	12.	28	36	16	28	32	20	28	32
7527E	58	12	28	32	16	28	28	20	28	28
7527J	66	12	32	36	20	28	36	24	28	36
7527H	70	12	28	36	20	28	32	20	28	32
7 527H	74	12	28	32	16	28	28	20	28	28
7527E	76	16	32	36	20	28	36	24	28	36
7527B	81	16	24	28	20	24	28	20	28	32
7527C	87	12	28	32	16	24	28	24	28	32
7529K	89	12	28	32	16	28	28	20	28	28
7529B	94	12	24	28	16	24	28	20	28	28
7529H	98	12	28	36	16	28	32	20	28	32
7529D	110	16	28	-17.00	20	28	-21.44	20	28	28
7529N	114	12	28	28	16	28	28	20	28	32
7529L	118	12	32	40	20	28	36	24	28	36
7529B	112	12	28	32	16	28	32	20	28	32
7529A	133	12	28	32	16	28	32	20	28	32
	7528E 7528G 7527B 7528J 7528H 7528K 7527A 7527K 7527E 7527H 7527H 7527E 7527B 7527B 7527C 7529K 7529B 7529H 7529D 7529N 7529L 7529B	7528E 16 7528G 21 7527B 22 7528J 28 7528H 48 7528K 50 7527A 51 7527K 53 7527E 58 7527J 66 7527H 70 7527H 74 7527E 76 7527B 81 7527C 87 7529K 89 7529B 94 7529H 98 7529H 98 7529D 110 7529N 114 7529L 118 7529B 112	7528E 16 12 7528G 21 12 7527B 22 12 7528J 28 12 7528H 48 12 7528K 50 12 7527A 51 12 7527K 53 12 7527E 58 12 7527J 66 12 7527H 70 12 7527H 74 12 7527B 81 16 7527B 81 16 7527B 87 12 7529K 89 12 7529B 94 12 7529H 98 12 7529D 110 16 7529L 118 12 7529B 112 12	7528E 16 12 24 7528G 21 12 28 7527B 22 12 28 7528J 28 12 28 7528H 48 12 28 7527A 51 12 28 7527K 53 12 28 7527E 58 12 28 7527J 66 12 32 7527H 70 12 28 7527H 74 12 28 7527E 76 16 32 7527B 81 16 32 7527B 81 16 24 7529K 89 12 28 7529B 94 12 28 7529D 110 16 28 7529L 118 12 28 7529B 112 28 7529B 112 </td <td>7528E 16 12 24 28 7528G 21 12 28 32 7527B 22 12 28 36 7528J 28 12 28 32 7528H 48 12 28 36 7528K 50 12 28 32 7527A 51 12 28 32 7527K 53 12 28 32 7527E 58 12 28 32 7527J 66 12 32 36 7527H 70 12 28 32 7527H 74 12 28 32 7527E 76 16 32 36 7527B 81 16 24 28 7529K 89 12 28 32 7529B 94 12 28 36 7529D 110 16 28 -17.00 7529B<</td> <td>7528E 16 12 24 28 16 7528G 21 12 28 32 16 7527B 22 12 28 36 20 7528J 28 12 28 32 16 7528H 48 12 28 36 20 7528K 50 12 28 32 16 7527A 51 12 28 32 16 7527K 53 12 28 32 16 7527E 58 12 28 32 16 7527J 66 12 32 36 20 7527H 70 12 28 36 20 7527H 74 12 28 32 16 7527E 76 16 32 36 20 7527B 81 16 24<td>7528E 16 12 24 28 16 24 7528G 21 12 28 32 16 28 7527B 22 12 28 36 20 28 7528J 28 12 28 32 16 28 7528H 48 12 28 36 20 28 7527K 50 12 28 32 16 28 7527K 53 12 28 32 16 28 7527E 58 12 28 32 16 28 7527J 66 12 32 36 20 28 7527H 70 12 28 32 16 28 7527H 74 12 28 36 20 28 7527E 76 16 32 36 20</td><td>7528E 16 12 24 28 16 24 28 7528G 21 12 28 32 16 28 32 7527B 22 12 28 36 20 28 32 7528J 28 12 28 32 16 28 32 7528H 48 12 28 36 20 28 32 7528K 50 12 28 32 16 28 32 7527A 51 12 28 32 16 28 32 7527E 53 12 28 36 16 28 28 7527E 58 12 28 32 16 28 32 7527H 70 12 28 36 20 28 32 7527E 76 16 32</td><td>7528E 16 12 24 28 16 24 28 20 7528G 21 12 28 32 16 28 32 20 7527B 22 12 28 36 20 28 32 24 7528J 28 12 28 32 16 28 28 20 7528H 48 12 28 36 20 28 32 20 7527K 50 12 28 32 16 28 32 20 7527K 53 12 28 32 16 28 32 20 7527E 58 12 28 32 16 28 28 20 7527H 70 12 28 36 20 28 32 20 7527H 74 12 28</td><td>7528E 16 12 24 28 16 24 28 20 24 7528G 21 12 28 32 16 28 32 20 28 7527B 22 12 28 36 20 28 32 24 28 7528J 28 12 28 32 16 28 28 20 28 7528H 48 12 28 36 20 28 32 20 28 7527A 51 12 28 32 16 28 32 20 28 7527K 53 12 28 36 16 28 32 20 28 7527B 58 12 28 36 16 28 32 20 28 7527J 66 12 32 36 20</td></td>	7528E 16 12 24 28 7528G 21 12 28 32 7527B 22 12 28 36 7528J 28 12 28 32 7528H 48 12 28 36 7528K 50 12 28 32 7527A 51 12 28 32 7527K 53 12 28 32 7527E 58 12 28 32 7527J 66 12 32 36 7527H 70 12 28 32 7527H 74 12 28 32 7527E 76 16 32 36 7527B 81 16 24 28 7529K 89 12 28 32 7529B 94 12 28 36 7529D 110 16 28 -17.00 7529B<	7528E 16 12 24 28 16 7528G 21 12 28 32 16 7527B 22 12 28 36 20 7528J 28 12 28 32 16 7528H 48 12 28 36 20 7528K 50 12 28 32 16 7527A 51 12 28 32 16 7527K 53 12 28 32 16 7527E 58 12 28 32 16 7527J 66 12 32 36 20 7527H 70 12 28 36 20 7527H 74 12 28 32 16 7527E 76 16 32 36 20 7527B 81 16 24 <td>7528E 16 12 24 28 16 24 7528G 21 12 28 32 16 28 7527B 22 12 28 36 20 28 7528J 28 12 28 32 16 28 7528H 48 12 28 36 20 28 7527K 50 12 28 32 16 28 7527K 53 12 28 32 16 28 7527E 58 12 28 32 16 28 7527J 66 12 32 36 20 28 7527H 70 12 28 32 16 28 7527H 74 12 28 36 20 28 7527E 76 16 32 36 20</td> <td>7528E 16 12 24 28 16 24 28 7528G 21 12 28 32 16 28 32 7527B 22 12 28 36 20 28 32 7528J 28 12 28 32 16 28 32 7528H 48 12 28 36 20 28 32 7528K 50 12 28 32 16 28 32 7527A 51 12 28 32 16 28 32 7527E 53 12 28 36 16 28 28 7527E 58 12 28 32 16 28 32 7527H 70 12 28 36 20 28 32 7527E 76 16 32</td> <td>7528E 16 12 24 28 16 24 28 20 7528G 21 12 28 32 16 28 32 20 7527B 22 12 28 36 20 28 32 24 7528J 28 12 28 32 16 28 28 20 7528H 48 12 28 36 20 28 32 20 7527K 50 12 28 32 16 28 32 20 7527K 53 12 28 32 16 28 32 20 7527E 58 12 28 32 16 28 28 20 7527H 70 12 28 36 20 28 32 20 7527H 74 12 28</td> <td>7528E 16 12 24 28 16 24 28 20 24 7528G 21 12 28 32 16 28 32 20 28 7527B 22 12 28 36 20 28 32 24 28 7528J 28 12 28 32 16 28 28 20 28 7528H 48 12 28 36 20 28 32 20 28 7527A 51 12 28 32 16 28 32 20 28 7527K 53 12 28 36 16 28 32 20 28 7527B 58 12 28 36 16 28 32 20 28 7527J 66 12 32 36 20</td>	7528E 16 12 24 28 16 24 7528G 21 12 28 32 16 28 7527B 22 12 28 36 20 28 7528J 28 12 28 32 16 28 7528H 48 12 28 36 20 28 7527K 50 12 28 32 16 28 7527K 53 12 28 32 16 28 7527E 58 12 28 32 16 28 7527J 66 12 32 36 20 28 7527H 70 12 28 32 16 28 7527H 74 12 28 36 20 28 7527E 76 16 32 36 20	7528E 16 12 24 28 16 24 28 7528G 21 12 28 32 16 28 32 7527B 22 12 28 36 20 28 32 7528J 28 12 28 32 16 28 32 7528H 48 12 28 36 20 28 32 7528K 50 12 28 32 16 28 32 7527A 51 12 28 32 16 28 32 7527E 53 12 28 36 16 28 28 7527E 58 12 28 32 16 28 32 7527H 70 12 28 36 20 28 32 7527E 76 16 32	7528E 16 12 24 28 16 24 28 20 7528G 21 12 28 32 16 28 32 20 7527B 22 12 28 36 20 28 32 24 7528J 28 12 28 32 16 28 28 20 7528H 48 12 28 36 20 28 32 20 7527K 50 12 28 32 16 28 32 20 7527K 53 12 28 32 16 28 32 20 7527E 58 12 28 32 16 28 28 20 7527H 70 12 28 36 20 28 32 20 7527H 74 12 28	7528E 16 12 24 28 16 24 28 20 24 7528G 21 12 28 32 16 28 32 20 28 7527B 22 12 28 36 20 28 32 24 28 7528J 28 12 28 32 16 28 28 20 28 7528H 48 12 28 36 20 28 32 20 28 7527A 51 12 28 32 16 28 32 20 28 7527K 53 12 28 36 16 28 32 20 28 7527B 58 12 28 36 16 28 32 20 28 7527J 66 12 32 36 20

TEST LIMITS = 0.0V to -2.0V

with the state of the state of

FIRE (TERMINAL 4) - SUBGROUP A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7527C	4	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527A	11	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7528E	16	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7528G	21	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527B	22	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7528J	28	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7528H	48	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7528K	50	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-17.60	-27.60	-27.60
7527A	51	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-17.60	-27.60	-27.60
7527K	53	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527 E	58	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527J	66	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527H	70	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527H	74	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527E	76	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7525B	81	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7527C	87	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529K	89	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529B	94	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529H	98	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529D	110	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529N	114	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-17.60
7529L	118	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529B	112	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529A	133	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60

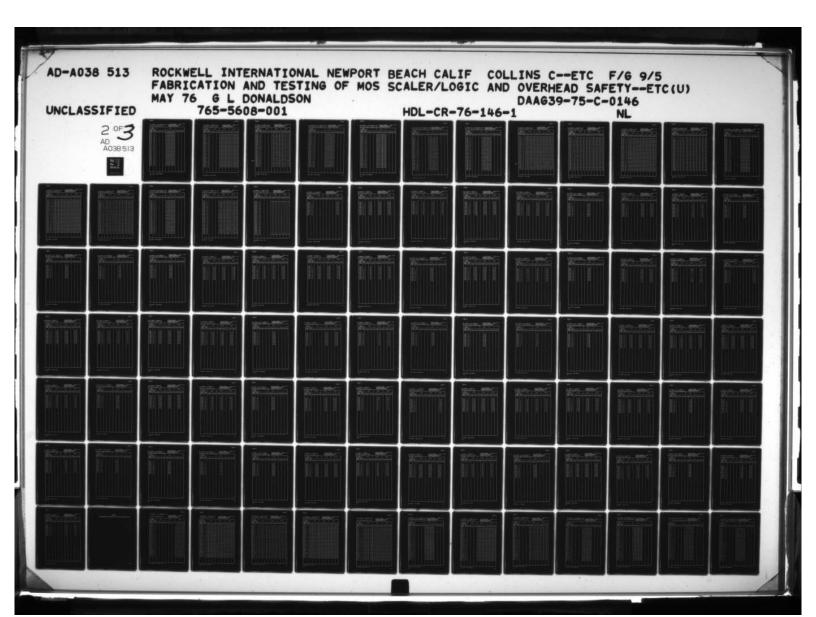
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FIRE (TERMINAL 4) - SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-75
ROCKWELL INTERNATIONAL
NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V		-27.6V			
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	
7527C	4	-1.36	-2.56	-2.96	-1.72	-2.52	-2.88	-2.16	-2.72	-3.04	
7527A	11	-1.36	-2.64	-3.00	-1.72	-2.60	-2.92	-2.20	-2.80	-3.08	
7528E	16	-1.28	-2.32	-2.64	-1.68	-2.40	-2.68	-2.12	-2.64	-2.92	
7528G	21	-1.36	-2.48	-2.84	-1.72	-2.48	-2.84	-2.20	-2.72	-3.04	
7527B	22	-1.40	-2.92	-3.40	-1.76	-2.72	-3.12	-2.24	-2.84	-3.16	
7528J	28	-1.36	-2.52	-2.92	-1.68	-2.48	-2.84	-2.16	-2.68	-3.04	
7528H	48	-1.36	-2.76	-3.16	-1.72	-2.64	-3.00	-2.20	-2.76	-3.12	
7528K	50	-1.40	-2.68	-3.04	-1.72	-2.64	-2.96	-2.20	-2.80	-3.12	
7527A	51	-1.36	-2.52	-2.88	-1.72	-2.52	-2.84	-2.16	-2.72	-3.04	
7527K	53	-1.40	-2.84	-3.28	-1.72	-2.68	-3.00	-2.24	-2.80	-3.12	
7527E	58	-1.40	-2.56	-2.96	-1.72	-2.52	-2.88	-2.20	-2.76	-3.0	
7527J	66	-1.40	-3.04	-3.56	-1.80	-2.80	-3.20	-2.32	-2.92	-3.2	
7527H	70	-1.40	-2.76	-3.16	-1.72	-2.68	-3.00	-2.20	-2.80	-3.1	
7527H	74	-1.32	-2.52	-2.92	-1.68	-2.48	-2.84	-2.16	-2.68	-3.0	
7527E	76	-1.44	-2.88	-3.32	-1.84	-2.80	-3.16	-2.36	-2.96	-3.3	
7525B	81	-1.28	-2.36	-2.68	-1.68	-2.40	-2.76	-2.16	-2.68	-2.9	
7527C	87	-1.40	-2.56	-2.96	-1.76	-2.52	-2.88	-2.24	-2.76	-3.0	
7529K	89	-1.36	-2.48	-2.84	-1.72	-2.48	-2.80	-2.20	-2.72	-3.0	
7529B	94	-1.32	-2.36	-2.76	-1.68	-2.40	-2.76	-2.16	-2.68	-3.0	
7529H	98	-1.40	-2.96	-3.48	-1.76	-2.76	-3.12	-2.32	-2.84	-3.2	
7529D	110	-1.36	-2.48	-2.80	-1.72	-2.48	-2.80	-2.20	-2.72	-3.0	
7529N	114	-1.36	-2.48	-2.84	-1.72	-2.48	-2.84	-2.16	-2.72	-3.0	
7529L	118	-1.48	-3.08	-3.60	-1.84	-2.84	-3.28	-2.36	-3.00	-3.3	
7529B	112	-1.40	-2.68	-3.12	-1.72		-3.00	-2.24	-2.80	-3.1	
7529A	133	-1.36	-2.52	-2.96	-1.68	-2.52	-2.88	-2.16	-2.72	-3.0	

The man was the state of the st



G14 (TERMINAL 5), V5M -SUBGROUP A2,A3,A4
INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10µ A				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7527C	4				-36.52	-35.28	-34.24			
7527A	11				-33.04	-32.28	-31.72			
7528E	16				-31.36	-30.52	-29.88			
7528G	21				-35.20	-34.24	-33.44			
7527B	22				-32.48	-32.00	-31.52			
7528J	28				-35.52	-34.48	-33.60			
7528H	48				-32.24	-31.44	-30.68			
7528K	50				-35.40	-34.28	-33.40			
7527A	51				-35.20	-34.36	-33.68			
7527K	53				-32.48	-31.80	-31.28			
7527E	58				-34.72	-33.76	-33.08			
7527J	66				-38.52	-37.56	-36.72			
7527H	70				-33.56	-32.84	-32.20			
7527H	74				-34.40	-33.56	-32.88			
7527E	76				-34.40	-33.64	-33.00			
7525B	81				-32.64	-31.88	-31.28			
7527C	87				-35.84	-34.80	-33.80			
7529K	89				-36.04	-34.80	-33.84			
7529B	94				-34.88	-33.92	-33.12			
7529H	98				-33.72	-32.64	-31.76			
7529D	110				-36.20	-35.20	-34.52			
7529N	114				-34.72	-33.72	-32.92			
7529L	118				-32.60	-31.76	-31.00			
7529B	122				-34.68	-33.72	-32.92			
7529A	133				-35.28	-34.16	-33.24			

The water with the same of the

Q4 (TERMINAL 6) - SUBGROUP A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devid Identific			-17.0V			-21.5V		-27.6V			
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55°С	+25°C	+75°C	-55°C	+25°C	+75°C	
7527C	4				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7527A	11							-27.60	-27.60		
7528E	16							-27.60	-27.60		
7528G	21						-21.52	-27.60	-27.60		
7527B	22					-21.52	-21.52	-27.60	-27.60	-27.60	
7528J	28				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7528H	48				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7528K	50					-21.52	-21.52	-27.60	-27.60	-27.60	
7527A	51				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7527K	53				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7527E	58				-21.56	-21.52.	-21.52	-27.60	-27.60	-27.60	
7527J	66				-21.56	-21.52	-21.56	-27.60 .	-27.60	-27.60	
7527H	70				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7527H	74				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7527E	76				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7525B	81				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60	
7527C	87				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60	
7529K	89				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7529B	94				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7529H	98				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7529D	110				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7529N	114				-21.56	-21.52	-21.56	-27.60	-27.60	-27.60	
7529L	118				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
7529B	112				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60	
7529A	133				-21.56	-21.52	-21.52	-27.60	-27.60	-27.60	
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Q4 (TERMINAL 6) - SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Devid Identific			-17.0V			-21.5V		-27.6V		
	DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55°С	+25°C	+75°C	-55°C	+25°C	+75°C
	7527C	4				40	72	88	44	72	84
	7527A	11				40	76	88	48	76	88
	7528E	16				36	68	80	44	68	76
	7528G	21				40	72	84	44	72	84
	7527B	22				40	76	92	48	76	88
	7528J	28				40	76	88	44	72	84
	7528H	48				44	76	92	48	76	88
	7528K	50				40	80	92	48	76	88
	7527A	51				44	84	-1.00	56	80	92
	7527K	53				40	80	92	48	76	88
	7527E	58				40	72	84	44	72	80
	7527J	66				40	80	96	48	76	88
	7527H	70				40	76	88	48	72	88
	7527H	74				40	76	88	48	72	84
	7527E	76				44	84	-1.00	52	76	92
	7525B	81				40	76	88	48	76	88
	7527C	87				40	76	88	48	72	88
	7529K	89				40	72	88	44	72	84
	7529B	94				40	76	88	48	72	88
	7529H	98				40	76	92	48	72	88
REJECT	7529D	110				44	72	-21.52	44	72	27.60
	7529N	114				40	76	88	44	72	88
	7529L	118				44	88	-1.04	56	80	96
	7529B	112				40	76	88	48	72	88
	7529A	133				40	76	88	48	72	88

TEST LIMITS = 0.0V TO -2.6V

M11 (TERMINAL 7), V7M - SUBGROUP A2,A3,A4 SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10µA				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7527C	4				-37.08	-35.80	-34.76			
7527A	11				-31.92	-31.28	-30.72			
7528E	16				-32.28	-32.44	-30.68			
7528G	21				-34.32	-33.48	-32.72			
7527B	22				-32.80	-32.08	-31.48			
7528J	28				-35.64	-34.56	-33.68			
7528H	48				-33.40	-32.44	-31.64			
7528K	50				-35.08	-34.00	-33.12			
7527A	51				-32.92	-32.24	-31.64			
7527K	53				-33.88	-33.08	-32.48			
7527E	58				-34.84	-33.88	-33.20			
7527J	66				-36.24	-35.48	-34.80			
7527H	70			*	-33.68	-32.92	-32.28			
7527H	74				-35.64	-34.76	-34.00			
7527E	76				-34.12	-33.36	-32.72			
7525B	81				-34.04	-33.16	-32.52			
7527C	87				-36.80	-35.64	-34.64			
7529K	89				-37.32	-35.88	-34.88			
7529B	94				-33.88	-32.96	-32.20			
7529H	98				-33.72	-32.60	-31.68			
7529D	110				-34.04	-33.12	-32.44			
7529N	114				-32.76	-31.84	-31.08			
7529L	118				-32.84	-31.60	-30.88		are Li	
7529B	122				-35.84	-34.80	-33.96			
7529A	133				-35.64	-34.48	-33.52			

MON (TERMINAL 9), V9M -SUBGROUP A2,A3,A4 COLLINS DIVISIONS ROCKWELL INTERNATION NEWPORT BEACH, CALIF.

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10 µA				
DATE CODE	UNIT NO.	–55°С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7527C	4				-35.20	-34.00	-32.92			
7527A	11				-35.60	-34.68	-33.88			
7528E	16				-31.32	-30.44	-29.72			
7528G	21				-35.44	-34.44	-33.52			
7527B	22				-35.00	-34.04	-33.24			
7528J	28				-34.36	-33.32	-32.40			
7528H	48				-35.00	-33.96	-33.04			
7528K	50				-35.44	-34.24	-33.28			
7527A	51				-32.40	-31.72	-31.08			drift.
7527K	53				-33.88	-33.08	-32.44			
7527E	58				-36.56	-35.56	-34.76			
7527J	66				-38.96	-38.00	-37.08			
7527H	70				-36.56	-35.60	-34.76			
7527H	74				-32.56	-31.80	-31.08			
7527E	76				-34.56	-33.72	-32.92			
7525B	81				-31.92	-31.24	-30.64			
7527C	87				-36.80	-35.64	-34.56			
7529K	89				-34.68	-33.48	-32.48			
7529B	94				-34.48	-33.52	-32.60			
7529H	98				-34.32	-33.20	-32.24			
7529D	110				-33.08	-32.20	-31.52			
7529N	114				-33.40	-32.40	-31.48			
7529L	118				-32.00	-31.12	-30.24			
7529B	122				-33.36	-32.48	-31.64			
7529A	133				-35.64	-34.48	-33.48			
			34,57							
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MON (TERMINAL 9), V9P - SUBGROUP A2, A3, A4 COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification		*			3m A					
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7527C	4				+1.00	+ .92	+ .88			
7527A	11				+1.04	+1.04	+1.04			
7528E	16				+1.08	+1.08	+1.08			
7528G	21				+1.08	+1.08	+1.08			
7527B	22				+1.04	+1.04	+1.04			
7528J	28				+1.08	+1.12	+1.12			
7528H	48				+1.04	+1.04	+1.00			
7528K	50				+1.04	+1.04	+1.04			
7527A	51				+1.08	+1.08	+1.08			
7527K	53				+1.08	+1.08	+1.08			
7527E	58	a			+1.08	+1.12	+1.12			
7527J	66				+1.12	+1.16	+1.16			
7527H	70				+1.04	+1.04	+1.04			
7527H	74				+1.16	+1.28	+1.32			
7527E	76				+1.08	+1.08	+1.08			
7525B	81				+1.04	+1.04	+1.04			
7527C	87				+1.00	+ .92	+ .92			
7529K	89				+1.20	+1.32	+1.36			
7529B	94.				41.28	+1.44	+1.52			
7529H	98				+1.04	+1.04	+1.04			
7529D	110				+1.08	+1.08	+1.08			
7529N	114				+1.20	+1.36	+1.44			
7529L	118				+1.08	+1.08	+1.08			
7529B	122				+1.36	+1.52	+1.68			
7529A	133				+1.08	+1.08	+1.08			

CL (TERMINAL 10), V10M SUBGROUP A2,A3,A4 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification			,			10μΑ				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7527C	4				-33.72	-32.60	-31.64			
7527A	11				-35.92	-34.96	-34.24			
7528E	16				-30.88	-30.04	-29.40			
7528G	21				-32.40	-31.56	-30.84			
7527B	22				-35.02	-34.02	-34.12			
7528J	28				-34.56	-33.56	-32.76			
7528H	48				-33.24	-32.40	-31.64			
7528K	50				-35.64	-34.48	-33.56			
7527A	51				-32.60	-32.00	-31.44			
7527K	53				-34.40	-33.60	-32.96			
7527E	58				-36.24	-35.20	-34.48			
7527J	66				-38.04	-37.20	-36.40			
7527H	70				-35.16	-34.36	-33.68			
7527H	74				-37.12	-36.12	-35.36			
7527E	76				-33.40	-32.64	-31.96			
7525B	81				-34.96	-34.00	-33.36			
7527C	87				-37.20	-36.04	-35.00			
7529K	89				-36.60	-35.32	-34.28			
7529B	94				-33.60	-32.72	-31.92			
7529H	98				-34.68	-33.56	-32.64			
7529D	110				-32.92	-32.16	-31.56			
7529N	114				-33.32	-32.40	-31.60			
7529L	118				-32.96	-32.04	-31.28			
7529B	122				-31.68	-30.84	-30.12			
7529A	133				-35.72	-34.52	-33.60			

SP (TERMINAL 11) -SUBGROUP A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification		-17.0V			-21.5V			-27.6V		
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7527C	4	-10.48	-10.40	-10.36	-14.36	-14.24	-14.20	-19.72	-19.48	-19.44
7527A	11		-10.00					-19.28		-18.96
7528E	16		-10.44				-14.20			-19.44
7528G	21		-10.36							-19.40
7527B	22		- 9.48				-13.20			-18.32
7528J	28		-10.28				-14.00			-19.28
7528H	48		- 9.68			-13.48		-18.84		-18.60
7528K	50		-10.28					-19.64		-19.36
7527A	51		-10.48				-14.28			-19.52
7527K	53		- 9.40							-18.24
7527E	58		-10.48			-14.36				-19.60
7527J	66		-10.08							-19.16
7527H	70		-10.28							-19.24
7527H	74			-10.32			-14.12			-19.36
7527E	76		- 9.80							-17.68
7525B	81		-10.56							-19.60
7527C	87		-10.08			1				-19.04
7529K	89		-10.04					-19.28		-18.96
7529B	94			-10.36		-14.28				-19.44
7529H	98		- 9.52							-18.40
7529D	110		-10.32			-14.16		-19.64		04
7529N	114			-10.48			-14.32			-19.56
7529L	118		- 9.20							
7529B	112		-10.28							
7529A	133		-10.04			1		-19.28		-18.92
							231,2			

REJECT

TEST LIMITS = -8.0V to VDD

SP (TERMINAL 11) - SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device Identification		-17.0V			-21.5V			-27.6V		
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	
7527C	4	48	60	76	80	84	-1.00	-1.28	-1.28	-1.28	
7527A	11	48	60	80	80	84	-1.00	-1.28	-1.28	-1.28	
7528E	16	48	60	76	76	80	96	-1.24	-1.24	-1.24	
7528G	21	48	64	80	84	88	-1.04	-1.28	-1.32	-1.36	
7527B	22	44	60	80	76	84	-1.04	-1.23	-1.28	-1.28	
7528J	28	48	64	80	80	84	-1.00	-1.28	-1.28	-1.28	
7528H	48	48	60	84	80	80	-1.04	-1.28	-1.28	-1.32	
7528K	50	48	64	84	84	88	-1.04	-1.36	-1.36	-1.36	
7527A	51	56	72	92	88	92	-1.12	-1.44	-1.48	-1.48	
7527K	53	44	60	80	76	80	-1.00	-1.24	-1.28	-1.28	
7527E	58	52	68	84	84	88	-1.04	-1.36	-1.36	-1.36	
7527J	66	48	72	84	80	92	-1.04	-1.28	-1.32	-1.36	
7527H	70	56	72	88	88	92	-1.12	-1.40	-1.44	-1.44	
7527H	74	52	68	84	88	88	-1.08	-1.40	-1.40	-1.40	
7527E	76	48	64	80	76	84	-1.04	-1.28	-1.28	-1.28	
7525B	81	52	64	80	84	84	-1.04	-1.28	-1.32	-1.36	
7527C	87	48	60	76	80	80	-1.00	-1.28	-1.28	-1.36	
7529K	89	48	60	80	80	84	-1.04	-1.28	-1.28	-1.32	
7529B	94	52	64	80	84	88	-1.04	-1.36	-1.36	-1.36	
7529H	98	48	64	84	76	84	-1.04	-1.28	-1.28	-1.32	
7529D	110	52	64	08	84	88	08	-1.36	-1.36	00	
7529N	114	52	64	84	84	88	-1.04	-1.36	-1.36	-1.36	
7529L	118	48	64	88	80	88	-1.08	-1.36	-1.36	-1.40	
7529B	112	52	64	84	84	88	-1.04	-1.36	-1.36	-1.36	
7529A	133	48	60	76	76	80	96	-1.24	-1.24	-1.24	

LP (TERMINAL 12) - SUBGROUP A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 7-24-76 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device Identification		-17.0V			-21.5V			-27.6V		
	DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55°С	+25°C	+75°C	-55°C	+25°C	+75°C
	7527C	4	-10.52	-10.44	-10.36	-14.44	-14.28	-14.20	-19.76	-19.56	-19.44
1	7527A	11	- 9.92	- 9.84	- 9.80	-13.76	-13.64	-13.56	-19.04	-18.84	-18.76
1	7528E	16	-10.52	-10.44	-10.36	-14.40	-14.28	-14.20	-19.76	-19.56	-19.44
1	7528G	21	-10.40	-10.32	-10.28	-14.32	-14.20	-14.08	-19.64	-19.44	-19.36
1	7527B	22	- 9.60	- 9.52	- 9.48	-13.40	-13.32	-13.24	-18.68	-18.48	-18.40
;	7528J	28	-10.32	-10.28	-10.16	-14.20	-14.04	-14.00	-19.48	-19.32	-19.20
1	7528H	48	- 9.80	- 9.72	9.68	-13.64	-13.52	-13.44	-18.92	-18.76	-18.64
7	7528K	50	-10.16	-10.08	-10.04	-14.04	-13.92	-13.88	-19.36	19.20	19.12
1	7527A	51	-10.04	-10.00	9.92	-13.88	-13.76	-13.72	-19.12	18.96	-18.88
1	7527K	53	- 9.44	- 9.36	9.32	-13.24	-13.12	-13.08	-18.48	-18.32	18.20
17	7527E	58	-10.44	-10.32	-10.32	-14.32	-14.20	-14.16	-19.64	19.48	19.40
17	7527J	66	-10.04	-10.00	9.92	-13.96	-13.84	-13.76	-19.32	19.12	19.00
7	7527H	70	-10.44	-10.36	-10.32	-14.32	-14.04	-14.16	-19.64	19.48	19.40
7	7527H	74	-10.44	-10.36	-10.32	-14.32	-14.20	-14.16	-19.64	19.48	19.40
17	7527E	76	-10.08	-10.00	9.92	-13.92	-13.80	-13.72	-19.16	19.00	18.88
17	7525B	81	-10.64	-10.52	-10.48	-14.52	-14.40	-14.32	-19.84	19.64	19.56
7	7527C	87	-10.16	-10.08	-10.04	-14.00	-13.92	-13.84	-19.28	19.12	19.04
7	7529K	89	-10.16	-10.04	-10.04	-14.00	-13.88	-13.80	-19.32	19.12	19.00
17	7529B	94	-10.44	-10.36	10.28	-14.32	14.20	-14.08	-19.64	19.44	19.32
17	7529H	98	- 9.72	- 9.60	9.56	-13.56	-13.40	-13.36	18.80	18.64	18.52
7	7529D	110	-10.44	-10.36	-10.28	-14.32	14.20	-14.08	19.64	19.44	19.36
1	7529N	114	-10.56	-10.48	10.44	-14.48	-14.32	-14.32	19.76	19.56	19.56
7	7529L	118	- 9.32	- 9.24	9.20	-13.12	-13.04	-12.92	18.36	18.20	18.12
7	7529B	112	-10.36	-10.28	10.28	-14.28	-14.08	-14.04	19.60	19.40	19.28
7	7529A	133	-10.12	-10.04	9.96	-13.96	13.84	13.72	19.20	19.00	18.92
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LP (TERMINAL 12) -SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			−27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7527C	4	24	40	40	40	48	52	60	64	64
7527A	11	24	40	44	40	48	52	60	64	64
7528E	16	24	40	40	40	48	48	60	60	60
7528G	21	28	40	44	44	52	52	64	64	6 8
7527B	22	24	44	44	40	52	52	60	64	68
7528J	28	24	40	40	40	48	48	60	64	64
7528H	48	24	44	44	40	52	52	60	64	68
7528K	50	24	44	44	40	52	52	60	64	68
7527A	51	24	44	44	44	56	56	68	72	72
7527K	53	24	40	44	40	48	48	60	64	64
7527E	58	28	44	44	44	52	52	64	68	68
7527J	66	24	44	44	40	52	52	60	64	64
7527H	70	28	44	44	44	56	56	72	72	76
7527H	74	28	44	44	44	56	56	68	72	72
7527E	76	24	44	44	40	52	52	64	64	68
7525B	81	24	40	44	40	52	52	64	64	68
7527C	87	28	40	40	44	48	52	60	64	64
7529K	89	24	40	40	40	48	52	64	64	64
7529B	94	24	40	40	40	48	52	64	64	68
7529H	98	24	40	44	40	48	52	60	64	64
7529D	110	28	44	44	44	52	52	64	68	72
7529N	114	28	40	44	44	52	52	64	64	68
7529L	118	24	44	44	40	56	56	64	68	72
7529B	112	24	44	44	40	52	52	64	64	68
7529A	133	24	40	40	40	48	48	60	60	60

TEST LIMITS = 0.0V to -2.0V

INH (TERMINAL 13), V13M - SUBGROUP A2, A3, A4 COLLINS DIVISIONS DATE 7-24-76
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7527C	4				-34.24	-33.12	-32.16			
7527A	11				-33.96	-33.12	-32.48			
7528E	16				-31.24	-30.36	-29.68			
7528G	21				-33.20	-32.44	-31.68			
7527B	22				-32.36	-31.60	-32.00			
7528J	28				-35.72	-34.68	-33.84			
7528H	48				-33.20	-32.28	-31.48			
7528K	50				-36.60	-35.48	-34.64			
7527A	51				-34.48	-33.64	-32.96			
7527K	53				-33.04	-32.28	-31.76			
7527E	58				-35.56	-34.56	-33.84			
7527J	66				-35.56	-34.84	-34.20			
7527H	70				-34.92	-34.08	-33.40			
7527H	74				-36.80	-35.80	-35.00			
7527E	76				-35.48	-34.56	-33.84			
7525B	81				-36.28	-35.20	-34.44			
7527C	87				-36.08	-35.00	-34.00			
7529K	89				-37.56	-36.24	-35.16			
7529B	94				-33.24	-32.44	-31.68			
7529H	98				-36.80	-35.68	-34.72			
7529D	110				-34.72	-33.80	-33.12			
7529N	114				-35.92	-34.88	-34.04			
7529L	118				-32.44	-31.60	-30.88			
7529B	122				-32.88	-32.00	-31.28			
7529A	133				-36.20	-35.04	-34.04			

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G32 (TERMINAL 14) SUBGROUP A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALLF.

Device Identification			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7527C	4	-10.64	-10.52	-10.48	-14.52	-14.36	-14.32	-19.84	-19.64	-19.56
7527A	11	- 9.88	- 9.80	- 9.76	-13.72	-13.56	-13.52	-19.00	-18,76	-18.68
7528E	16	-10.48	-10.36	-10.32	-14.36	-14.20	-14.16	-19.72	-19.48	-19.40
7528G	21	-10.60	-10.48	-10.44	-14.52	-14.36	-14.32	-19.88	-19.68	-19.60
7527B	22	- 9.80	- 9.72	- 9.68	-13.68	-13.56	-13.44	-18.96	-18.76	-18.68
7528J	28	-10.32	-10.16	-10.16	-14.20	-14.00	-13.96	-19.48	-19.28	-19.16
7528H	48	- 9.88	- 9.80	- 9.72	-13.72	-13.60	-13.56	-19.04	-18.84	-18.76
7528K	50	-10.08	-10.04	-10.00	-14.00	-13.88	-13.84	-19.32	-19.12	-19.04
7527A	51	-10.16	-10.08	-10.04	-14.00	-13.88	-13.84	-19.28	-19.12	-19.00
7527K	53	- 9.44	- 9.36	- 9.32	-13.24	-13.12	-13.04	-18.48	-18.32	-18.20
7527E	58	-10.32	-10.20	-10.16	-14.20	-14.04	-14.00	-19.48	-19.32	-19.20
7527J	66	-10.00	- 9.88	- 9.84	-13.88	-13.72	-13.64	-19.16	-18.96	-18.84
7527H	70	-10.36	-10.28	-10.28	-14.28	-14.16	-14.04	-19.60	-19.40	-19.32
7527H	74	-10.44	-10.36	-10.32	-14.36	-14.20	-14.16	-19.68	-19.48	-19.44
7527E	76	-10.04	- 9.96	- 9.88	-13.92	-13.76	-13.68	-19.16	-18.96	-18.84
7525B	81	-10.64	-10.52	-10.48	-14.52	-14.36	-14.32	-19.84	-19.64	-19.52
7527C	87	-10.28	-10.12	-10.08	-14.04	-13.92	-13.88	-19.32	-19.16	-19.04
7529K	89	-10.16	-10.08	-10.04	-14.04	-13.88	-13.84	-19.32	-19.12	-19.04
7529B	94	-10.08	-10.00	- 9.92	-13.92	-13.80	-13.72	-19.16	-19.00	-18.88
7529H	98	- 9.96	- 9.84	- 9.80	-13.84	-13.68	-13.64	-19.16	-18.96	-18.84
7529D	110	-10.16	-10.04	-10.00	-14.00	-13.88	-13.76	-19.28	-19.04	-18.96
7529N	114	-10.36	-10.28	-10.20	-14.20	-14.08	-14.00	-19.48	-19.32	-19.20
7529L	118	- 9.76	- 9.68	- 9.60	-13.64	-13.52	-13.44	-18.96	-18.76	-18.68
7529B	112	-10.36	-10.28	-10.16	-14.24	-14.08	-14.00	-19.56	-19.36	-19.28
7529A	133	-10.12	-10.04	- 9.96	-14.00	-13.84	-13.72	-19.20	-19.00	-18.92

G32 (TERMINAL 14) - SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			−21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7527C	4	68	72	72	84	88	88	-1.00	-1.08	-1.08
7527A	11	72	72	72	84	88	88	-1.00	-1.08	-1.08
7528E	16	64	64	68	76	80	84	92	-1.04	-1.04
7528G	21	72	72	76	84	88	88	-1.04	-1.08	-1.12
7527B	2 2	76	76	76	88	88	92	-1.04	-1.12	-1.12
7528J	28	68	72	72	80	88	88	96	-1.08	-1.08
7528H	48	72	72	76	84	88	88	-1.00	-1.08	-1.12
7528K	50	72	72	76	84	88	88	-1.04	-1.08	-1.12
7527A	51	/2	76	76	88	92	92	-1.08	-1.12	-1.20
7527K	53	72	72	76	84	88	88	96	-1.08	-1.08
7527E	58	72	72	72	84	88	88	-1.04	-1.08	-1.08
7527J	66	72	72	72	84	88	88	-1.00	-1.08	-1.08
7527H	70	76	76	76	88	92	92	-1.08	-1.12	-1.20
7527H	74	72	76	76	88	92	92	-1.08	-1.12	-1.16
7527E	76	72	72	76	84	88	88	-1.04	-1.08	-1.12
7525B	81	68	72	72	84	88	88	-1.04	-1.08	-1.08
7527C	87	72	72	72	84	88	88	-1.04	-1.08	-1.12
7529K	89	68	72	72	80	88	88	-1.00	-1.08	-1.08
7529B	94	68	72	72	80	84	88	96	-1.04	-1.08
7529H	98	72	72	76	84	88	88	-1.00	-1.08	-1.08
7529D	110	68	72	72	80	88	88	96	-1.08	-1.08
7529N	114	72	72	72	84	88	88	-1.04	-1.08	-1.12
7529L	118	76	80	80	88	92	96	-1.08	-1.16	-1.20
7529B	122	72	72	76	84	88	88	-1.04	-1.08	-1.12
7529A	133	64	72	72	76	84	88	96	-1.04	-1.08

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FP (TERMINAL 15),V15M-SUBGROUP A2,A3,A4 SCALER INPUT (NEGATIVE BREAKDOWN) VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			- 1			10µA				
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7527C	4				-36.04	-34.84	-33.80			
7527A	11				-34.36	-33.52	-32.84			
7528E	16				-32.24	-31.36	-30.64			
7528G	21				-34.24	-33.36	-32.56			
7527B	22				-33.76	-32.96	-32.36			
7528J	28				-35.60	-34.48	-33.60			
7528H	48				-36.12	-35.04	-34.16			
7528K	50				-37.08	-36.00	-35.08			
7527A	51				-34.56	-33.72	-33.08			
7527K	53				-32.88	-32.12	-31.60			
7527E	58				-35.32	-34.36	-33.56			
7527J	66				-40.24	-39.20	-38.36			
7527H	70				-36.92	-35.96	-35.16			
7527H	74				-35.60	-34.68	-33.92			
7527E	76				-34.12	-33.24	-32.56			
7525B	81				-35.12	-34.16	-33.40			
7527C	87				-36.96	-35.84	-34.84			
7529K	89				-35.32	-34.24	-33.36			
7529B	94				-36.84	-32.92	-32.16			
7529H	98				-36.76	-35.64	-34.60			
7529D	110				-33.52	-32.60	-31.96	The said		
7529N	114				-36.44	-35.36	-34.40			
7529L	118				-31.84	-31.08	-30.36			
7529B	122				-32.56	-31.76	-31.00			
7529A	133				-37.16	-35.96	-34.96			

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Q6 (TERMINAL 16) - SUBGROUP A2,A3, A4 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-24-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7527C	4				-12.72	7.84	- 7.60	-14.00	-12.72	-11.76
7527A	11				-12.24	- 7.20	- 6.96	-13.36	-11.36	-11.08
7528E	16				-12.40	- 7.80	- 7.52	-13.72	-12.00	-11.68
7528G	21				-12.44	6.72	- 7.52	-13.92	-12.04	-11.72
7527B	22				-11.36	- 6.72	- 6.52	-12.52	-10.84	-10.52
7528J	28				- 7.60	- 7.24	- 6.96	-12.44	-11.32	-11.00
7528H	48				- 9.96	- 6.68	- 6.48	-12.08	-10.84	-10.52
7528K	50				-11.56	6.96	- 6.76	-12.84	-11.12	-10.80
7527A	51				-12.08	7.16	- 6.92	-13.16	-11.28	-10.92
7527K	53				-10.76	- 6.32	- 6.12	-11.92	-10.44	-10.16
7527E	58				-11.92	7.20	- 6.96	-13.16	-11.36	-11.04
7527J	66				-11.00	- 6.52	- 6.24	-12.12	-10.60	-10.28
7527H	70				-12.00	- 7.04	- 6.84	-13.08	-11.16	-10.84
7527H	74				-12.32	- 7.40	- 7.16	-13.56	-11.64	-11.28
7527E	76				-11.96	- 6.96	- 6.68	-12.92	-11.00	-10.68
7525B	81				-12.60	- 7.76	7.48	-13.88	-11.92	-11.56
7527C	87				- 7.48	- 7.24	- 7.00	-11.72	-11.28	-11.00
7529K	89				- 8.64	- 7.40	- 7.16	-13.08	-11.60	-11.28
7529B	94				-10.44	- 7.77	- 7.44	-13.56	-11.96	-11.60
7529H	98				- 8.92	- 7.80	- 6.56	-12.40	-11.00	-10.64
7529D	110				- 7.76	- 7.32	- 7.08	-12.48	-11.44	-11.12
7529N	114		1164		-11,88	- 7.56	- 7.28	-13.40	-11.72	-11.36
7529L	118				-10.28	- 6.20	- 6.00	-11.48	-10.28	- 9.88
7529B	112				-12.36	- 7.64	- 7.36	-13.72	-11.92	-11.48
7529A	133				- 7.88	- 7.20	- 6.92	-12.40	-11.32	-10.96

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Q6 (TERMINAL 16) - SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7527C	4				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7527A	11					1	1		1	
7528E	16									
7528G	21									
7527B	22									
7528J	28									
7528H	48									
7528K	50									
7527A	51									
7527K	53									
7527E	58									
7527J	66									
7527H	70									
7527H	74									
7527E	76									
7525B	81									
7527C	87									
7529K	89									
7529B	94									
7529H	98									
7529D	110									
7529N	114									
7529L	118									
7529B	112				1			1	1	1
7529A	133				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

IDD (TERMINAL 1), 1A - SUBGROUP B1 SCALER BIAS (IDD CURRENT), MA

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CALEK BI	(1DI	CURRE	VI), MA		ı		I BEACI	1, CALIF		
Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2								-5.19	
7528D	8								-4.70	
7527C	13								-4.74	
7528G	20								-5.07	
7528C	25								-4.94	
7527C	30								-4.91	
7528C	33								-5.13	
7527B	36								-4.57	
7528K	49								-4.86	
7527H	54								-5.27	

ARM (TERMINAL 3) - SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS

	Device Identific			-17.0V			-21.5V			-27.6V	
	DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°С	+25°C	+75°C	-55°C	+25°C	+75°C
1	7528C	2		-17.04			-21.56			-27.64	
1	7528D	8		-17.04			-21.56			-27.64	
1	7527C	13		-17.04			-21.56			-27.64	
1	7528G	20		-17.04			-21.56			-27.64	
	7528C	25		-17.04			-21.56			-27.64	
	7527C	30		-17.04			-21.56			-27.64	
	7528C	33		-17.04			-21.56			-27.64	
	7527B	36		-17.04			-21.56			-27.64	
	7528H	49		-17.04			-21.56			-27.64	
	7527H	54		-17.00			-21.56			-27.64	
		12 11 15									

ARM (TERMINAL 3) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS

Devic Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2		28			24			28	
7528D	8		28			24			28	
7527C	13		24			24			28	
7528G	20		24			24			24	
7528C	25		28			28			28	
7527C	30		24			24			28	
7528C	33		24			24			28	
7527B	36		28			28			28	
7528K	49		28			28			28	
7527H	54		28			24			24	

FIRE (TERMINAL 4) -SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2		-17.00			-21.52			-27.60	
7528D	8		-17.00			-21.52			-27.64	
7527C	13		-17.00			-21.52			-27.60	
7528G	20		-17.00			-21.52			-27.60	
7528C	25		-17.00			-21.52			-27.60	
7527C	30		-17.00			-21.52			-27.60	
7528C	33		-17.00			-21.52			-27.60	
7527B	36		-17.00			-21.52			-27.60	
7528K	49		-17.00			-21.52			-27.60	
7527H	54		-17.00			-21.52			-27.60	

FIRE (TERMINAL 4) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS

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								i, ondi		
Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	2		-2.48			-2.48			-2.76	
7528D	8		-2.48			-2.48			-2.68	
7527C	13		-2.56			-2.52			-2.72	
7528G	20		-2.36			-2.40			-2.68	
7528C	25		-2.52			-2.52			-2.76	
7527C	30		-2.40			-2.44			-2.68	
7528C	33		-2.44			-2.48			-2.76	
7527B	36		-2.52			-2.52			-2.72	
7528K	49		-2.76			-2.64			-2.76	
7527H	54		-2.48			-2.48			-2.68	
		Contract of the Contract of th							the same of the sa	

G14 (TERMINAL 5), V5M - SUBGROUP B1

SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLING DIVISIONS
ROCKWELL INTERNATION
NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7528C	2					-32.56				
7528D	8					-32.92				
7527C	13					-31.32				
528G	20					-33.72				
7528C	25					-33.12				
527C	30					-32.92				
528C	33					-34.00			10.00	
527B	36					-32.44				
528K	49					-30.96				
527H	54					-36.12				
						1000				

Q4 (TERMINAL 6) - SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 7-28-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Doni										
Device Identification		-17.0V		-21.5V			-27.6V			
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7528C	2					-21.56			-27.64	
7528D	8					-21.56			-27.64	
7527C	13					-21.56			-27.64	
7528G	20					-21.56			-27.64	
7528C	25					-21.56			-27.64	
7527C	30					-21.56			-27.64	
7528C	33					-21.56			-27.64	
7527B	36					-21.56			-27.64	
7528K	49					-21.56			-27.64	
7527H	54					-21.56			-27.64	P.F.E.

Q4 (TERMINAL 6) SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 7-28-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identified			-17.0V			-21.5V		-27.6V		
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2					76			72	
7528D	8					80			76	
7527C	13					72			68	
7528G	20					76			72	
7528C	25					84			76	
7527C	30					76			72	
8528C	33					76			72	
7527B	36					84			76	
7528K	49					88			80	
7527H	54					88			76	
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M11 (TERMINAL 7), V7M -SUBGROUP B1 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

COLLINS DIVISIONS DATE 7-28-76 ROCKWELL INTERNATIONAL

Device Identifica						10μΑ				
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2					-36.00				
7528D	8					-33.76				
7527C	13					-32.84				
7528G	20					-31.92				
7528C	25					-33.84				
7527C	30					-32.56				
7528C	33					-33.44				
7527B	36					-33.04				
7528K	49					-33.32				
7527H	54					-34.96				

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MON (TERMINAL 9), V9M - SUBGROUP B1 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

DATE 7-28-75 COLLINS DIVISIONS ROCKWELL INTERNATIONAL

Devidentifie						10μΑ				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7528C	2					-35.16				
7528D	8					-34.00				
7527C	13					-32.72				
7528G	20					-30.16				
7528C	25					-34.00				
7527C	30					-35.76				
7528C	33					-34.40				
7527B	36					-34.36				
7528K	49					-32.72	1			
7527H	54					-35.44				
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MON (TERMINAL 9) V9P - SUBGROUP B1 SCALER INPUT (POSITIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

DATE 7-28-76 COLLINS DIVISIONS ROCKWELL INTERNATIONAL

Devidentifie						3mA				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	2					+1.08				
7528D	8					+1.16				
7527C	13					+ .92				
7528G	20					+1.08				
7528C	25					+1.28				36
7527C	30					+ .92				
7528C	33					+1.04				
7527B	36					+1.04				
7528K	49					+1.08				
7527H	54					+1.20				1
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CL (TERMINAL 10), V10M-SUBGROUP BT SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 7-28-76 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification						10μΑ				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2					-35.12				
7528D	8					-31.60				
7527C	13					-33.08				
7528G	20					-30.64				
7528C	25					-32.76				
7527C	30					-34.64				
7528C	33					-33.52				
7527B	36					-34.52				
7528K	49					-33.20				
7527H	54					-33.56				

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SP (TERMINAL 11)- SUBGROUP B1
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-28-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device dentification —17.0V				-21.5V		-27.6V			
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2		-10.28			-14.08	- 11		-19.36	
7528D	8		-10.52			-14.36			-19.68	
7527C	13		-10.20			-14.00			-19.28	
7528G	20		-10.32			-14.16			-19.40	
7528C	25		-10.12			-13.92			-19.20	
7527C	30		-10.20			-14.00			-19.28	
7528C	33		-10.28			-14.04			-19.28	
7527B	36		-10.04			-13.84			-19.04	
7528K	49		-10.00			-13.84			-19.12	
7527H	54		-10.04			-13.88			-19.12	
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SP (TERMINAL 11) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 7-28-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

DATE CODE NO55°C +25°C +75°C -55°C +25°C -56°C -55°C +25°C -55°C -55°	
7528D 8 64 84 -1.28 7527C 13 60 80 -1.28 7528G 20 60 80 -1.24 7528C 25 64 88 -1.36 7527C 30 60 84 -1.36 7528C 33 64 84 -1.28 7527B 36 60 80 -1.24 7528K 49 64 84 -1.32	+75°C
7528D 8 64 84 -1.28 7527C 13 60 80 -1.28 7528G 20 60 80 -1.24 7528C 25 64 88 -1.36 7527C 30 60 84 -1.36 7528C 33 64 84 -1.28 7527B 36 60 80 -1.24 7528K 49 64 84 -1.32	
7527C 13 60 80 -1.28 7528G 20 60 80 -1.24 7528C 25 64 88 -1.36 7527C 30 60 84 -1.36 7528C 33 64 84 -1.28 7527B 36 60 80 -1.24 7528K 49 64 84 -1.32	
7528G 20 60 80 -1.24 7528C 25 64 88 -1.36 7527C 30 60 84 -1.36 7528C 33 64 84 -1.28 7527B 36 60 80 -1.24 7528K 49 64 84 -1.32	
7528C 25 64 88 -1.36 7527C 30 60 84 -1.36 7528C 33 64 84 -1.28 7527B 36 60 80 -1.24 7528K 49 64 84 -1.32	
7527C 30 60 84 -1.36 7528C 33 64 84 -1.28 7527B 36 60 80 -1.24 7528K 49 64 84 -1.32	
7528C 33 64 84 -1.28 7527B 36 60 80 -1.24 7528K 49 64 84 -1.32	
7527B 366080 -1.24 -1.32	
7528K 496484 -1.32	
7527H 546888 -1.40	

TEST LIMITS = 0.0V to -2.0V

LP (TERMINAL 12) - SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 7-28-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identific			-17.0V			-21.5V		-27.6V		
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2		-10.32			-14.16			-19.36	
7528D	8		-10.04			-13.84			-19.00	
7527C	13		-10.04			-13.80			-19.28	
7528G	20		-10.28			-14.04			-19.32	
7528C	25		- 9.96			-13.76			-19.00	
7527C	30		-10.28			-14.04			-19.28	
7528C	33		-10.48			-14.30			-19.60	
7527B	36		-10.04			-13.80			-19.00	
7528K	49		-10.04			-13.88			-19.12	
7527H	54		-10.16			-14.00			-19.20	
	J-113									

LP (TERMINAL 12) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS

Device Identifie			-21.5V			-27.6V				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7528C	2		44			52			68	
7528D	8		40			48			60	
7527C	13		40			48			60	
7528G	20		40			48			60	
7528C	25		44			52			64	
7527C	30		40			48			64	
7528C	33		40			52			68	
7527B	36		40			48			60	
7528K	49		44			52			68	
7527H	54		44			56			72	

INH (TERMINAL 13), V13M - SUBGROUP B1

SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

ROCKWELL INTERNATION NEWPORT BEACH, CALIF.

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COLLINS DIVISIONS DATE 7-28-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2					-33.24				
7528D	8					-32.88				
7527C	13					-35.42				
7528G	20					-33.28				
7528C	25					-31.92				
7527C	30					-34.44				
7528C	33					-31.60				
7527B	36					-35.28				
7528K	49					-31.60				
7527H	54					-34.84				

G32 (TERMINAL 14)- SUBGROUP B1
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 7-28-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			−27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	2		-10.44			-14.28			-19.56	
7528D	8		-10.20			-14.04			-19.28	
7527C	13		- 9.88			-13.68			-18.84	
7528G	20		-10.16			-13.96			-19.16	
7528C	25		-10.00			-13.80			-19.00	
7527C	30		-10.32			-14.16			-19.40	
7528C	33		-10.48			-14.32			-19.60	
7527B	36		- 9.96			-13.72			-18.92	
7528K	49		- 9.84			-13.64			-18.88	
7527H	54		-10.08			-13.92			-19.16	

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G32 (TERMINAL 14) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS

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Devi Identifi			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	2		72			88			-1.08	
7528D	8		68			84			-1.04	
7527C	13		68			84			-1.04	
7528G	20		68			84			-1.04	
7528C	25		72			88			-1.08	
7527C	30		72			88			-1.08	
7528C	33		68			84			-1.08	
7527B	36		72			84			-1.04	
7528K	49		72			88			-1.08	
7527H	54		76			92			-1.12	

FP (TERMINAL 15), V15M - SUBGROUP B1 SCALER INPUT (NEGATIVE BREAKDOWN) VOLTS

COLLINS DIVISIONS DATE 7-25-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°(
7528C	2					-33.68				
7528D	8					-33.84				
7527C	13					-34.96				
7528G	20					-31.84				
7528C	25					-33.92				
527C	30					-33.12				
7528C	33					-32.80				
527B	36					-34.48				
7528K	49					-32.48				
7527H	54					-35.92				
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Q6 (TERMINAL 16) - SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS

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COLLINS DIVISIONS DATE 7-25-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	2					-1.44			-11.64	
7528D	8					-7.28			-11.44	
7527C	13					-7.60			-12.56	
7528G	20					-7.60			-11.84	
7528C	25					-7.28			-11.44	
7527C	30					-8.08			13.16	
7528C	33					-4.96			-12.16	
7527B	36					-4.12			11.00	
7528K	49					-7.12			11.32	
7527H	54					-7.44			-11.64	

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Q6 (TERMINAL 16) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 7-25-76 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C
75000										
7528C	2					-0.00			-0.00	
7528D	8					•			1	
7527C	13									
7528G	20									
7528C	25									
7527C	30									
7528C	33									
7527B	36									
7528K	49								1	
7527H	54					-0.00			-0.00	13.53

IDD (TERMINAL 1), 1A - SUBGROUP B2 SCALER BIAS (IDD CURRENT), MA

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6								-4.60	
7528D	10								-5.35	
7528C	15								-4.51	
7528H	23								-4.86	
7528C	27								-4.70	
7528J	29								-4.96	
7527D	35								-4.89	
7527D	39								-5.03	
7527K	44								-4.53	
7527E	52								-5.05	

ARM (TERMINAL 3) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°С	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	6		-17.00			-21.48			-27.56	
7528D	10		-17.00			-21.48			-27.56	
7528C	15		-17.00			-21.48			-27.56	
7528H	23		-17.00			-21.48			-27.56	
7528C	27		-17.00			-21.48			-27.56	
7528J	29		-17.00			-21.48			-27.56	
7527D	35		-17.00			-21.48			-27.56	
7527D	39		-17.00			-21.48			-27.56	
7527K	44		-17.00			-21.48			-27.56	
7527E	52		-17.00			-21.48			-27.56	
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ARM (TERMINAL 3) -SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific	ce		-17.0V			-21.5V		I, OALII	-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
						7.				
7528C	6		28			28			28	
7528D	10		28			28	1		28	
7528C	15		28			28	,		28	
7528H	23		28			28			28	
7528C	27		28			28			28	
7528J	29		28			28			28	
7527D	35		28			28			28	
7527D	39		28			28			28	
7527K	44		28			28			28	
7527E	52		28			28			28	
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FIRE (TERMINAL 4) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-76 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6		-17.00			-21.56			-27.60	
7528D	10		-17.00			-21.52			-27.60	
7528C	15		-17.00			-21.56			-27.60	
7528H	23		-17.00			-21.56			-27.60	
7528C	27		-17.00			-21.56			-27.60	
7528J	29		-17.00			-21.56			-27.60	
7527D	35		-17.00			-21.56			-27.60	
7527D	39		-17.00			-21.56			-27.60	
7527K	44		-17.04			-21.56			-27.60	
7527E	52		-17.00			-21.52			-27.60	

TEST LIMITS = -16.9V to VDD

THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

FIRE (TERMINAL 4) SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS

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COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

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Devidentific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	6		-2.52			-2.52			-2.72	
7528D	10		-2.48			-2.48			-2.72	
7528C	15		-2.64			-2.60			-2.80	
7528H	23		-2.44			-2.48			-2.68	
7528C	27		-2.40			-2.48			-2.68	
7528J	29		-2.48			-2.48			-2.68	
7527D	35		-2.72			-2.68			-2.84	
7527D	39		-2.68			-2.68			-2.84	
7527K	44		-2.80			-2.68			-2.84	
7527E	52		-2.60			-2.60			-2.80	
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G14 (TERMINAL 5), V5M - SUBGROUP B2 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	6			511		-31.16				
7528D	10					-34.24				
7528C	15					-33.48				
7528H	23					-30.64				
7528C	27					-33.68				
7528J	29					-32.24				
7527D	35					-33.32				
7527D	39					-33.48				
7527K	44					-31.16				
7527E	52					-32.92				

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Q4 (TERMINAL 6) -SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS

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COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devid Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	6					-21.56			-27.64	
7528D	10					-21.56			-27.64	
7528C	15					-21.56			-27.64	
7528H	23					-21.56			-27.64	
7528C	27					-21.56			-27.64	
7528J	29					-21.56			-27.64	
7527D	35					-21.56			-27.64	
7527D	39					-21.56			-27.64	
7527K	44					-21.56			-27.64	
7527E	52					-21.56			-27.64	
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Q4 (TERMINAL 6) - SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	6					76			76	
7528D	10					76			72	
7528C	15					84			76	
7528H	23					72			72	
7528C	27					76			72	
7528J	29					76			72	
7527D	35					76			72	
7527D	39					80			76	
7527K	44					84			76	
7527E	52					76			76	
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M11 (TERMINAL 7), V7M - SUBGROUP B2

COLLINS DIVISIONS DA
ROCKWELL INTERNATIONAL SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

COLLINS DIVISIONS **DATE 8-19-75**

Devid Identific						10μΑ				
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°(
7528C	6					-31.64				
528D	10					-32.56				
'528C	15					-35.48				
'528H	23					-32.52				
528C	27					-31.60				
528J	29					-33.36				
527D	35					-31.48				
527D	39					-33.24				
527K	44					-31.64				
527E	52					-32.64				
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MON (TERMINAL 9), V9M- SUBGROUP B2
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devidentifie						10μΑ				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6					-31.72				
7528D	10					-33.20				
7528C	15					-31.96				
7528H	23					-32.40				
7528C	27					-32.88				
7528J	29					-33.68				
7527D	35					-35.00				
7527D	39					-31.16				
7527K	44					-31.16				
7527E	52					-32.28				

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MON (TERMINAL 9), V9P - SUBGROUP B2

COLLINS DIVISIONS

ROCKWELL INTERNATIONAL SCALER INPUT (POSITIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

DATE 8-19-75

Devid Identific						3mA				
DATE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7528C	6					1.08				
528D	10					1.28				
528C	15					1.12				
528H	23					1.04				
528C	27					1.08				
528J	29					1.04				
527D	35					1.04				
527D	39					1.08				
527K	44					1.32				
527E	52					1.04				
										1

CL (TERMINAL 10), V10M - SUBGROUP B2 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

DATE 8-19-75 COLLINS DIVISIONS ROCKWELL INTERNATIONAL

	Device Identific						10μΑ				
	DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
	7528C	6					-33.40				
	7528D	10					-36.24				
	7528C	15					-32.88				
	7528H	23					-31.92				
	7528C	27					-33.20				
	7528J	29					-34.08				
	7527D	35					-36.08				
	7527D	39					-31.32				
	7527K	44					-31.36			1,24,13	
	7527E	52					-32.56				
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SP (TERMINAL 11) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6		-10.04			-13.88			-19.04	
7528D	10		-10.04			-13.84			-19.04	
7528C	15		- 9.96			-13.72			-18.96	
7528H	23		-10.36			-14.20			-19.44	
7528C	27		-10.16			-13.92			-19.12	
7528J	29		- 9.92			-13.68			-18.88	
7527D	35		-10.04			-13.80			-19.00	
7527D	39		-10.28			-14.04			-19.32	
7527K	44		- 9.76			-13.56			-18.76	
7527E	52		- 9.88			-13.68			-18.88	

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SP (TERMINAL 11) - SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6		60			80			-1.24	
7528D	10		72			88			-1.44	
7528C	15		60			80			-1.24	
7528H	23		60			80			-1.24	
7528C	27		60			80			-1.24	
7528J	29		64			84			-1.28	
7527D	35		64			88			-1.36	
7527D	39		68			88			-1.40	
7527K	44		64			84			-1.36	
7527E	52		68			88			-1.36	

The war will be the total the second of the

LP (TERMINAL 12) - SUBGROUP B2
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devid Identific			-17.0V			−21.5V			-27.6V	
DATE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C
528C	6		-10.28			-14.08			-19.36	
528D	10		-10.08			-13.88			-19.12	
7528C	15		- 9.96			-13.72			-18.92	
528H	23		-10.16			-14.00			-19.24	
7528C	27		-10.16			-14.00			-19.16	
7528J	29		-10.00			-13.76			-18.96	
7527D	35		-10.00			-13.76			-18.96	
527D	39		-10.28			-14.04			-19.32	
7527K	44		- 9.72			-13.52			-18.68	
7527E	52		-10.08			-13.92			-19.12	

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LP (TERMINAL 12) - SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6		40			48			64	
7528D	10		44			56		50273	72	
7528C	15		40			48			60	
7528H	23		40			48			60	
7528C	27		40			48			60	
7528J	29		44			52			64	
7527D	35		40			52			64	
7527D	39		44			56			72	
7527 K	44		44			52			64	
7527E	52		44			56			68	
46.7										
		*								

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INH (TERMINAL 13), V13M SUBGROUP B2
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10µA				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6					-31.52				
7528D	10					-32.88				
7528C	15					-35.32				
7528H	23					-32.12				
7528C	27					-34.40				
7528J	29					-32.76				
7527D	35					-32.28				
7527D	39					-34.00				
7527K	44					-31.56				
7527E	52					-32.40				
		-								
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G32 (TERMINAL 14) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			−21.5V			-27.6V	
DATE CODE	UNIT NO.	-55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6		-10.04			-13.88			-19.04	
7528D	10		-10.28			-14.09			-19.32	
7528C	15		- 9.84			-13.64			-18.80	
7528H	23		-10.28			-14.08			-19.32	
7528C	27		-10.20			-14.00			-19.28	
7528J	29		-10.48			-14.32			-19.60	
7527D	35		-10.08			-13.88			-19.04	
7527D	39		-10.00			-13.84			-19.04	
7527K	44		- 9.72			-13.52			-18.68	
7527E	52		-10.16			-13.96			-19.20	
							Mark.			

TEST LIMITS = -8.0V to VDD

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G32 (TERMINAL 14)- SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6		68			84			-1.04	
7528D	10		76			92			-1.20	
7528C	15		68			84			-1.04	
7528H	23		68			84			-1.04	
7528C	27		68			84			-1.04	E
7528J	29		72			88			-1.08	
7527D	35		72			88			-1.08	
7527D	39		76			88			-1.12	
7527K	44		76			88			-1.08	
7527E	52		76			88			-1.12	
						5 146			167.3	
			1							

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FP (TERMINAL 15), V15M - SUBGROUP B2

COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

	Device Identifica	e					10μΑ				
	DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
1	7528C	6					-32.64				
1	7528D	10					-34.76				
	7528C	15					-33.40	FEB. 4			
	7528H	23					-33.32				
	7528C	27					-33.56				
	7528J	29					-33.52				
	7527D	35					-34.04				
1	7527D	39					-32.24				
1	7527K	44					-32.20				
	7527E	52					-34.48				
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Q6 (TERMINAL 16) -SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification		-17.0V			−21.5V			–27.6V	
DATE UNIT CODE NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C 6					-7.44			-11.60	
7528D 10					-7.44			-11.60	
7528C 15					-7.64			-11.88	
7528H 23					-7.60			-11.80	
7528C 27					-7.68			-11.88	
7528J 29					-7.76			-11.92	
7527D 35		424			-7.52			-11.68	
7527D 39					-7.28			-11.44	
7527K 44					-6.72			-10.80	
7527E 52					-6.96			-11.12	

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Q6 (TERMINAL 16) -SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-19-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	6					04			00	
7528D	10					-,00			00	
7528C	15									
7528H	23									
7528C	27									
7528J	29									
7527D	35									
7527D	39									
7527K	44									
7527E	52					1			ı	

TEST LIMITS = 0.0V to -0.1V

IDD (TERMINAL 1), 1A--SUBGROUP B3
SCALER BIAS (IDD CURRENT), MA

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			−21 .5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3								-5.03	
7527D	9								-4.93	
7528A	14								-4.96	
7527C	14								-4.99	
7527A	19								-4.51	1 511
7527B	26								-4.69	
7528H	32								-4.51	979
7527A	38								-4.78	
7528C	40								-5.13	
7527B	42								-5.36	
										1.8
										Te Tre

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ARM (TERMINAL 3)--SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		-17.00			-21.48			-27.56	
7527D	9		-17.00			-21.48			-27.56	
7528A	14		-17.00			-21.48	4-1712		-27.56	
7527C	14		-17.00			-21.48			-27.56	
7527A	19		-17.00			-21.48			-27.56	
7527B	26		-17.00			-21.48			-27.56	
7528H	32		-17.00			-21.48			-27.56	
7527A	38		-17.00			-21.48			-27.56	
7528C	40		-17.00			-21.48			-27.56	
7527B	42		-17.00			-21.48			-27.56	
					g*					

ARM (TERMINAL 3) SUBGROUP B3

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

SCALER OUTPUT (HIGH LEVEL), VOLTS

Identific	ce ation		-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		24			24			24	
7527D	9		28			28			28	
7528A	14		28			28			28	
7527C	14		24			24			24	
7527A	19		28			28			28	
7527B	26		28			28			28	
7528H	32		28			28			28	
7527A	38		28			28			28	
7528C	40		28			28			28	
7527B	42		28			24			28	
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								-		
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FIRE (TERMINAL 4) - SUBGROUP B3

SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devidentified			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^o C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		-17.00			-21.56			-27.60	
7527D	9		-17.00			-21.56			-27.60	
7528A	14		-17.00			-21.52			-27.60	
7527C	14		-17.00			-21.56			-27.60	
7527A	19		-17.04			-21.56			-27.60	
7527B	26		-17.00			-21.56			-27.60	
7528H	32		-17.00			-21.56			-27.60	
7527A	38		-17.00			-21.56			-27.60	
7528C	40		-17.00			-21.56			-27.60	
7527B	42		-17.00			-21.56			-27.60	

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FIRE (TERMINAL 4) - SUBGROUP B3
SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

ALEK OUT	101 (11.	IGH LEVE	LI, VOL	.13				., 011211		
Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55 ^o C	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		-2.44			-2.48			-2.72	
7527D	9		-2.68			-2.64			-2.80	
7528A	14		-2.52			-2.52			-2.72	
7527C	14		-2.40			-2.40			-2.60	
7527A	19		-2.96			-2.76			-2.84	
7527B	26		-2.60			-2.52			-2.76	
7528H	32		-2.68			-2.56			-2.76	
7527A	38		-2.64			-2.60			-2.80	
7528C	40		-2.48			-2.48			-2.76	
7527B	42		-2.44			-2.44			-2.64	
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G14 (TERMINAL 5), V5M -SUBGROUP B3
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification						10μΑ				
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
& 528C	3					-32.96				
7527D	9					-33.08				
7528A	14					-32.96				
7527C	17					-32.12				
7527A	19					-31.00				
7527B	26					-35.44				
7528H	32					-35.80				
7527A	38					-34.80				
7528C	40					-34.04				
7527B	42					-32.60				

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Q4 (TERMINAL 6) - SUBGROUP B3

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

SCALER OUTPUT (LOW LEVEL), VOLTS

Device Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	3					-21.56			-27.64	
7 527D	9					-21.56			-27.64	
7528A	14					-21.56			-27.64	
7527C	14					-21.56			-27.64	
7527A	19					-21.56			-27.64	
7527B	26					-21.56			-27.64	
7528H	32					-21.56			-27.64	
7527A	38					-21.52			-27.64	
7528C	40					-21.52			-27.64	
7527B	42					-21.52			-27.64	
			17:27							

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Q4 (TERMINAL 6) - SUBGROUP B3

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

SCALER OUTPUT (HIGH LEVEL), VOLTS

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3					72			68	
7527D	9					72			72	
7528A	14					72			72	
7527C	14					68			68	
7527A	19					84			76	
7527B	26					76			72	
7528H	32					76			72	
7527A	38					72			72	
7528C	40					76			72	
7527B	42					76			72	
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								1. STA .		

TEST LIMITS = 0.0V TO -2.6V

A THE RESIDENCE OF THE RESIDENCE OF THE PROPERTY OF THE RESIDENCE OF THE RESIDENCE OF THE PROPERTY OF THE RESIDENCE OF THE RE

M11 (TERMINAL 7), V7M - SUBGROUP B3

COLLINS DIVISIONS DATE 8-18-75
ROCKWELL INTERNATIONAL
NEWPORT BEACH, CALIF

SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

Devi Identific	ce cation					10µА ′				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7528C	3					-31.36				
7527D	9					-34.92				
7528A	14					-34.04				
7527C	17					-34.20				
7527A	19					-33.40				
7527B	26					-33.80				
7528H	32					-35.92				
7527A	38					-32.12				
7528C	40					-33.40				
7527B	42					-33.12				
						4				

MATERIAL DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DE LA CONTRACTION DEL CONTRACTION DE LA C

MON (TERMINAL 9), V9M -SUBGROUP B3

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devid Identific						10μΑ				
DATE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	3					-31.32				
7527D	9					-31.64				
7528A	14					-34.36				
7527C	17					-30.80				
7527A	19					-30.44				
7527B	26			*		-35.20				
7528H	32					-35.16				
7527A	38					-32.24				
528C	40					-32.84				
7527B	42					-33.80				
		1								
							T.			
	- 124									
	13.50									
									3.1	

TEST LIMITS = -28.0 Minimum 168

MON (TERMINAL 9), V9P - SUBGROUP B3 SCALER INPUT (POSITIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL

Devid Identific						3mA				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	3					1.16				
7527D	9					1.20				
7528A	14					1.16				
7527C	17					1.00				
7527A	19					1.04				
7527B	26		690 6			1.16				
7528H	32					1.08				
7527A	36			137.01		1.08				
7528C	40					1.36				
7527B	42					1.08				
				4.640						

TEST LIMITS = 0.0V to +6.0V

CL (TERMINAL 10), V10M - SUBGROUP B3 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

DATE 8-18-75 COLLINS DIVISIONS ROCKWELL INTERNATIONAL

Devid Identific						10uA				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°0
7528C	3					-31.44				
7527D	9					-34.56				
7528A	14					-34.80				
7527C	17					-34.52				
7527A	19					-31.24				
7527B	26					-34.44				
7528H	32		156			-35.92				
7527A	38					-32.88				
7528C	40					-33.52				
7527B	42					-34.12				
		1.50								
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TEST LIMITS= -28.0V Minimum

SP (TERMINAL 11) -SUBGROUP B3
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	3		-10.40			-14.20			-19.44	
7527D	9		-10.32			-14.12			-19.40	
7528A	14		-10.12			-13.92			-19.12	SN M
7527C	14		-10.00			-13.76			-19.00	
7527A	19		-10.20			-14.04			-19.32	
7527B	26		-10.16			-13.92			-19.16	
7528H	32		- 9.96			-13.72			-18.92	
7527A	38		-10.20			-14.00			-19.28	
7528C	40		-10.52			-14.36			-19.68	
7527B	42		-10.48			-14.36			-19.68	

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SP (TERMINAL 11) - SUBGROUP B3 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devid Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		60			84			-1.28	
7527D	9		64			84			-1.28	
7528A	14		64			24			-1.36	
7527C	14		60			76			-1.24	
7527A	19		64			88			-1.36	
7527B	26		60			80			-1.24	
7528H	32		60			80			-1.24	
7527A	38		60			84			-1.28	
7528C	40		64			88			-1.36	
7527B	42		68			88			-1.40	
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LP (TERMINAL 12) -SUBGROUP B3
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification		-17.0V			-21.5V			-27.6V	
DATE UNIT CODE NO.	–55 ^о С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	−55°C	+25°C	+75°C
7528C 3		-10.16			-13.96			-19.16	
7527D 9		-10.32			-14.16			-19.44	
7528A 14		-10.04			-13.88			-19.08	
7527C 14		-10.32			-14.16			-19.40	
7527A 19		- 9.64			-13.36			-18.52	
7527B 26		-10.16			-13.96			-19.16	
7528H 32		- 9.92			-13.72			-18.88	
7527A 38		-10.16			-14.00			-19.20	
7528C 40		-10.48			-14.32			-19.64	
7527B 42		-10.48			-14.32			-19.64	

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LP (TERMINAL 12) - SUBGROUP B3

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

SCALER OUTPUT (HIGH LEVEL), VOLTS

Device Identificat			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55 ⁰ C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		40			48			60	
7527D	9		40			48			64	
7528A	14		44			52			68	
7527C	17		40			52			64	
7527A	19		40			48			64	
752 7 B	26		40			48			64	
7528H	32		40			48			60	
7527A	38		40			48			64	
7528C	40		44			52			69	
7527B	42		44			56			72	

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INH (TERMINAL 13), V13M -SUBGROUP B3
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devi Identific						10uA				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	3					-32.96				
7527D	9					-35.84				
7528A	14					-32.80				
7527C	17					-34.68				
7527A	19					-34.48				
7527B	26					-34.48				
7528H	32					-36.08				
7527A	38					-32.64				
7528C	40					-32.00				
7527B	42					-35.32				

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G32 (TERMINAL 14)--SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identifie			-17.0V			-21.5V			-27.6V	=,1
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		-10.28			-14.00			-19.20	
7527D	9		-10.36			-14.20			-19.44	
7528A	14		- 9.92			-13.72			-18.92	
7527C	14		-10.44			-14.32			-19.60	
7527A	19		- 9.68			-13.44			-18.60	
7527B	26		-10.12			-13.92			-19.12	
7528H	32		- 9.92			-13.68			-18.88	
7527A	38		-10.32			-14.16			-19.40	
7528C	40		-10.48			-14.32			-19.60	
7527B	42		- 9.80			-13.56			-18.76	
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G32 (TERMINAL 14) - SUBGROUP B3 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3		68			84			-1.08	
7527D	9	1-20	72			88			-1.08	
7528A	14		72			88			-1.08	
7527C	17		72			88			-1.08	
7527A	19		76			88			-1.08	
7527B	26		72			84			-1.08	
7528H	32		68			84			-1.04	
7527A	38		72			88			-1.08	
7528C	40		72			88			-1.12	
7527B	42		76			88			-1.08	

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FP (TERMINAL 15), V15M - SUBGROUP B3 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

NEWPORT BEACH, CALIF.

DATE 8-18-75 COLLINS DIVISIONS ROCKWELL INTERNATIONAL

Devidentified						10µA				
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	3					-33.80				
7527D	9					-33.08				
7528A	14					-32.96				
7527C	17					-32.12				
7527A	19					-31.00				
7527B	26					-35.44				
7528H	32					-35.80				
7527A	38					-34.80				
7528C	40					-34.04				
7527B	42					-32.00				

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Q6 (TERMINAL 16) -SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devi Identific			-17.0V			−21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7528C	3					-7.76			-12.04	
7527D	9					-7.80			-12.00	
7528A	14					-7.60			-11.84	
7527C	14					-7.56			-11.76	
7527A	19					-6.76			-10.80	
7527B	26					-7.12			-11.20	
7528H	32					-6.96			-11.00	
7527A	38					-7.28			-11.40	
7528C	40					-7.72			-11.92	
7527B	42					-7.32			-11.48	
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Q6 (TERMINAL 16)- SUBGROUP B3 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 8-18-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devid Identific	ce cation		-17.0V			-21.5V			-27.6V	
DATE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7528C	3					.00			.00	
7527D	9					.00			.00	
528A	14					.00			04	
527A	19					.00			.00	
527B	26					.00			.00	
7528H	32					.00			.00	
527A	38					.00			04	
'528C	40		86.5			.00			04	
527B	42					.00			04	
					- 1					

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APPENDIX D

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PARAMETRIC RESULTS OF PRODUCTION LOT QUALITY ACCEPTANCE TESTING

IDD(TERMINAL 1), 1A - SUBGROUP A2, A3, A4

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SCALER BIAS (IDD CURRENT), MA

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific	ation		-17.0V							
DAME			17.00			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M	1							-7.40	-5.00	-4.20
7538 K	2							-7.70	-5.20	-4.30
7532 H	3							-8.10	-5.40	-4.60
7538 J	4							-6.90	-4.60	-3.90
7532 A	5							-7.80	-5.30	-4.30
7530 M	6							-7.40	-5.00	-4.20
7530 M	7							-6.90	-4.60	-3.90
7538 B	8							-7.20	-4.90	-4.10
7538 E	9							-7.00	-4.70	-4.00
7538 A	10							-6.70	-4.50	-3.80
7538 N	11							-6.90	-4.70	-3.90
7538 R	12							-6.70	-4.60	-3.80
7538 R	13							-7.30	-5.00	-4.20
7538 H	14							-7.30	-5.00	-4.20
7532 PP	15							-7.60	-5.10	-4.30
7532 KK	16							-7.60	-5.10	-4.30
7530 T	17							-7.30	-4.90	-4.10
7538 C	18							-6.90	-4.60	-3.90
7538 M	19							-7.10	-4.80	-4.10
7529 P	20							-7.70	-5.20	-4.30
7532 DD	21							-7.30	-4.90	-4.10
7532 NN	22							-7.40	-5.00	-4.10
7532 P	23							-7.40	-5.00	-4.10
7532 N	24							-7.50	-5.10	-4.20
7532 Z	25							-7.40	-5.00	-4.20

TEST LIMITS = 2.0 mA to 10.0 mA

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ARM(TERMINAL 3) - SUBGROUP A2,A3,A4 SCALER OUTPUT (LOW LEVEL),VOLTS

THE RESERVE OF THE PROPERTY OF

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M	1	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 K	2	-16.96	-16.96	-16.96	-21.52	-21.52	-21.44	-27.52	-27.52	-27.52
7532 H	3	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 J	4	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7532 A	5	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7530 M	6	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7530 M	7	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 B	8	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 E	9	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 A	10	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 N	11	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 R	12	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27. 52	-27.52	-27.52
7538 R	13	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 H	14	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7532 PP	15	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538KK	16	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7530 T	17	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 C	18	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7538 M	19	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7529 P	20	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7532 DE	21	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7532 NN	22	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7532 P	23	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7532 N	24	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52
7532 N	25	-16.96	-16.96	-16.96	-21.52	-21.52	-21.52	-27.52	-27.52	-27.52

TEST LIMITS =-16.9V to VDD

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ARM (TERMINAL 3) - SUBGROUP A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

					1,	EWIOR	TBEACE	i, CALII	•	
Devic Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C
7530 M	1	12	24	32	16	24	28	20	28	28
7532 K	2	16	28	28	20	24	28	20	24	28
7532 H	3	12	20	28	16	24	28	20	24	28
7538 J	4	12	24	36	16	24	32	20	28	32
7532 A	5	12	24	28	16	24	28	20	24	28
7530 M	6	12	24	28	16	24	28	20	24	28
7530 M	7	12	28	32	16	28	32	20	28	32
7538 B	8	12	24	28	16	24	28	20	24	28
7538 E	9	12	24	3 2	16	24	28	20	24	28
7538 A	10	12	24	28	16	24	28	20	24	28
7538 N	11	12	28	36	20	24	32	20	28	32
7538 R	12	12	24	32	16	24	32	20	28	32
7538 R	13	16	28	36	20	28	32	24	28	32
7538 H	14	12	28	32	16	24	28	20	24	28
7532 PP	15	12	28	32	16	24	28	20	28	28
7532 KK	16	12	20	28	16	24	28	20	24	28
7530 T	17	16	28	32	20	24	28	20	28	32
7538 C	18	12	20	32	16	24	28	20	24	28
7538 M	19	12	24	32	16	28	28	20	28	32
7529 P	20	12	24	28	16	24	28	20	24	28
7532 DD	21	12	28	32	16	24	32	20	28	32
7532 NN	22	12	24	32	16	24	28	20	24	28
7532 P	23	16	24	28	20	24	28	20	24	28
7532 N	24	16	24	28	20	24	28	20	24	28
7532 Z	25	12	24	28	16	24	28	20	24	28
12.00										

FIRE (TERMINAL 4) - SUBGROUP A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7530 M	1	-17.00	-17.00	-17.00	-21.56	-21.52	-21.52	-27.60	-27.60	-27.60
7538 K	2	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7532 H	3	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.603	-27.60	-27.60
7538 J	4	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7532 A	5	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.6 0
7530 M	6	17.00	-17.00	-17.00	-21.52	-21.56	-21.52	-27.60	-27.60	-27.60
7530 M	7	-17.00	-17.00	-17.0 0	-21. 52	-21.52	-21.52	-27.60	-27.60	-27.60
7538 B	8	17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7538 E	9	-17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7538 A	10	-17.00	-17.00	-17.00	-21.56	-21.52	-21.52	-27.60	-27.60	-27.60
7538 N	11	17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27 .6 0	-27.60	-27.60
7538 R	12	17.00	-17.00	-17.00	-21.52	-21.56	-21.52	-27.60	-27.60	-27.60
7538 R	13	17.00	-17.00	-17.00	-21.52	-21.56	-21.52	-27.60	-27.60	-27.60
7538 H	14	17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7532 PP	15	17.00	-17.00	-17.00	-21.56	-21.52	-21.52	-27.60	-27.60	-27.60
7532 KK	16	17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7530 T	17	17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7538 C	18	17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7538 M	19	17.00	-17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7529 P	20	17.00	17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.64	-27.60
7532 DD	21	17.00	17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7532 NN	22	17.00	17.04	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7532 P	23	17.00	17.00	-17.00	-21.56	-21.52	-21.52	-27.60	-27.60	-27.60
7532 N	24	17.00	17.00	-17.00	-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7532 Z	25	17.00	17.00	-17.00	-21.52	-21.52	-21.56	-27.60	-27.60	-27.60

TEST LIMITS = 16.9V to VDD

FIRE (TERMINAL 4)-SUBGROUPS A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification			-17.0V		,	−21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55°С	+25°C	+75°C	−55°C	+25°C	+75°C
7530 M	1	-1.40	-2.56	-3.00	-1.76	-2.56	-2.96	-2.24	-2.80	-3.16
7538 K	2	-1.20	-2.32	-2.76	-1.52	-2.32	-2.68	-2.00	-2.48	-2.80
7532 H	3	-1.28	-2.32	-2.68	-1.64	-2.36	-2.72	-2.12	-2.60	-2.96
7538 J	4	-1.36	-2.76	-3.32	-1.72	-2.64	-3.04	-2.20	-2.76	-3.12
7532 A	5	-1.28	-2.32	-2.72	-1.64	-2.36	-2.76	-2.20	-2.64	-3.00
7530 M	6	-1.36	-2.48	-2.92	-1.72	-2.48	-2.88	-2.20	-2.72	-3.12
7530 M	7	-1.36	-2.68	-3.16	-1.72	-2.56	-3.00	-2.20	-2.76	-3.12
7538 B	8	-1.20	-2.36	-2.80	-1.56	-2.32	-2.68	-2.00	-2.48	-2.84
7538 B	9	-1.36	-2.56	-3.04	-1.68	-2.48	-2.92	-2.16	-2.68	-3.04
7538 A	10	-1.20	-2.32	-2.76	-1.52	-2.32	-2.68	-2.00	-2.48	-2.84
7538 N	11	-1.40	-2.76	-3.28	-1.76	-2.64	-3.04	-2.24	-2.80	-3.20
7538 R	12	-1.28	-2.64	-3.08	-1.64	-2.48	-2.84	-2.12	-2.64	-2.96
7538 R	13	-1.44	-2.88	-3.44	-1.84	-2.72	-3.16	-2.36	-2.88	-3.28
7538 H	14	-1.40	-2.52	-3.00	-1.72	-2.48	-2.88	-2.20	-2.72	-3.08
7532 PP	15	-1.28	-2.36	-2.80	-1.64	-2.40	-2.80	-2.08	-2.56	-2.96
7532 KK	16	-1.28	-2.36	-2.80	-1.68	-2.40	-2.80	-2.12	-2.64	-3.00
7530 T	17	-1.36	-2.44	-2.92	-1.68	-2.48	-2.88	-2.16	-2.68	-3.12
7538 C	18	-1.36	-2.56	-3.04	-1.72	-2.52	-2.96	-2.16	-2.68	-3.12
7538 M	19	-1.40	-2.64	-3.12	-1.76	-2.60	-3.00	-2.24	-2.80	-3.20
7529 P	20	-1.36	-2.36	-2.80	-1.72	-2.44	-2.84	-2.16	-2.68	-3.08
7532 DD	21	-1.28	-2.40	-2.88	-1.68	-2.44	-2.84	-2.16	-2.64	-3.04
7532 NN	22	-1.24	-2.32	-2.76	-1.60	-2.36	-2.72	-2.04	-2.48	-2.88
7532 P	23	-1.24	-2.28	-2.68	-1.56	-2.32	-2.68	-2.04	-2.48	-2.88
7532 N	24	-1.24	-2.36	-2.80	-1.64	-2.36	-2.80	-2.08	-2.56	-2.96
7538 Z	25	-1.20	-2.20	-2.64	-1.56	-2.28	-2.68	-2.04	-2.48	-2.84

TEST LIMITS = 0.0V to -10.0V

G14(TERMINAL 5), V5M - SUBGROUPS A2,A3,A4 COLLINS DIVISIONS **DATE** 9-30-75 ROCKWELL INTERNATIONAL SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

Device Identifica						10μΑ				
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7530 M	1				-35.64	-34.80	-34.00			
7538 K	2				-33.60	-32.68	-31.76			
7532 Н	3				-32.12	-31.40	-30.68			
7538 J	4				-37.48	-36.44	-35.48			
7532 A	5				-32.08	-31.52	-30.92			
7530 M	6					-31.04				
7530 M	7				-31.96		-30.64			
7538 B	8				-35.04	-34.12	-33.16			
7538 E	9				-33.20	-32.44	-31.60			
7538 A	10				-38.12	-37.00	-35.84			
7538 N	11					-33.44				
7538 R	12				-31.36	-30.80	-30.20			
7538 R	13				-36.24	-35.28				
7538 H	14				-33.52	-32.48	-31.40			
7532PP	15				-35.16	-34.20	-33.20			
7532KK	16				-35.40	-34.40	-33.40			
7530 T	17				-32.96	-32.08	-31.16			
7538 C	18				-36.48	-35.36	-34.20			
7538 M	19				-36.72	-35.64	-34.52			
7529 P	20				-30.08	-29.44	-28.76			
7532 DD	21				-35.32	-32.28	-33.20			
7532 NN	22				-31.16	-30.32	-29.40			
7532 P	23				-37.72	-36.60	-35.48			
7532 N	24				-33.28	-32.40	-31.36			
7532 Z	25				-36.12	-35.12	-34.00			

TEST LIMITS =-28.0V Minimum

Q4 (TERMINAL 6) - SUBGROUPS A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

NIT NO55	°C +25	8°C	+75°C	-55°C -21.52 -21.52		+75°C	−55°C −27.64	+25°C	+75°C
2 3 4 5 6 7						-21.52	-27.64	-27.64	
3 4 5 6 7				-21.52	07 50				-27.64
4 5 6 7					-21.52	-21.56	-27.64	-27.60	-27.60
5 6 7				-21.52	-21.52	-21.52	-27.60	-27.64	-27.60
6 7				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
7				-21.52	-21.52	-21.52	-27.64	-27.60	-27.60
	1			-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
8				-21.52	-21.52	-21.52	-27.60	-27.64	-27.64
9				-21.52	-21.52	-21.52	-27.60	-27.60	-27.64
10				-21.52	-21.52	-21.52	-27.60	-27.60	-27.64
11				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
12				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
13				-21.52	-21.52	-21.52	-27.60	-27.60	-27.64
14				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
15				-21.52	-21.52	-21.52	-27.60	-27:60	-27.60
16				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
17				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
18				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
19				-21.52	-21.52	-21.52	-27.60	-27.60	-27.64
20				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
21				-21.52	-21.52	-21.52	-27.64	-27.60	-27.60
22				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60
23				-21.52	-21.52	-21.52	-27.60	-27.64	-27.60
24				-21.52	-21.52	-21.52	-27.64	-27.60	-27.60
25				-21.52	-21.52	-21.52	-27.60	-27.60	-27.60

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Q4 (TERMINAL 6) - SUBGROUPS A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7530 M	1				40	76	88	48	72	88
7538 K	2		1		36	72	84	44	68	84
7532 H	3				36	72	80	44	64	76
7538 J	4				40	76	88	48	72	88
7532 A	5				36	68	84	44	68	80
7530 M	6				44	72	88	44	72	84
7530 M	7				40	76	92	48	72	88
7538 B	8				36	68	84	44	64	76
7538 E	9				40	76	88	44	72	88
7538 A	10				36	72	84	44	64	80
7538 N	11				40	84	-1.00	52	76	92
7538 R	12				40	76	92	48	72	88
7538 R	13				40	76	92	48	72	88
7538 H	14				40	72	88	44	68	84
7532 PP	15				40	72	88	44	72	88
7532 KK	16				40	72	88	44	68	84
7530 T	17				40	76	88	44	72	88
7538 C	18				40	76	92	48	72	88
7538 M	19				40	76	92	48	72	88
7529 P	20				36	68	84	44	68	84
7532 DD	21				48	72	88	56	88	-1.04
7532 NN	22				40	72	88	44	72	88
7532 P	23				36	72	88	44	72	88
7532 N	24				40	72	88	44	68	84
7532 Z	25				36	68	84	44	64	80

TEST LIMITS = 0.0V TO -2.6V

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M11 (TERMINAL 7), V7M-SUBGROUPS A2,A3,A4 SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M	1				-35 76	-34.88	-34 04			
7538 K	2					-32.16				
7532 H	3					-29.92				
7538 J	4					-34.64				
7532 A	5					-30.84				
7530 M	6					-30.52				
7530 M	7					-34.16				
7538 B	8					-34.16				
7538 E	9					-34.76				
7538 A	10					-37.24				
7538 N	11					-34.04				
7538 R	12				-32.92	-32.28	-31.60			
7538 R	13				-36.64	-35.64	-34.52			
7538 H	14				-33.82	-32.28	-31.20			
7532 PP	15				-34.92	-33.96	-32.92			
7532 KK	16				-33.48	-32.52	-31.52			
7530 T	17				-33.24	-32.24	-31.32			
7538 C	18				-36.08	-35.00	-33.80			
7538 M	19				-37.68	-36.56	-35.32			
7529 P	20				-33.56	-32.64	-31.76			
7532 DD	21				-35.88	-34.80	-33.68			
7532 NN	22				-35.12	-34.12	-33.08			
7532 P	23				-33.20	-32.56	-31.80			
7532 N	24				-33.40	-32.48	-31.44			
7532 Z	25				-32.92	-31.92	-30.84			

TEST LIMITS = -28.0V Minimum

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MON (TERMINAL 9), V9M-SUBGROUPS A2, A3, A4 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification					10μΑ				
DATE UNIT	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7530 M 1 7538 K 2 7532 H 3 7538 J 4 7532 A 5 7530 M 6 7530 M 7 7538 B 8 7538 E 9 7538 A 10				-34.84 -34.48 -32.20 -34.20 -33.88 -33.20 -34.48 -33.28 -35.76	-34.00 -33.52 -31.48 -33.26 -33.04 -32.40 -33.64 -32.40 -34.80	-33.16 -32.48 -30.68 -32.40 -32.08 -31.48 -32.72 -31.40 -33.68 -35.44			
7538 N 11 7538 R 12 7538 R 13 7538 H 14 7532 PP 15 7532 KK 16 7530 T 17 7538 C 18 7538 M 19 7529 P 20 7532 DD 21 7532 NN 22 7532 P 23 7532 N 24 7532 Z 25				-34.32 -33.20 -37.04 -33.88 -35.68 -34.52 -30.64 -36.56 -37.84 -32.96 -34.68 -34.52 -36.72 -34.36	-33.40 -32.48 -36.08 -32.80 -34.68 -33.52 -29.96 -35.44 -36.72 -32.08 -33.60 -33.52 -35.64 -33.40	-32.36 -31.76 -34.96 -31.64 -33.60 -32.44 -29.12 -34.20 -35.44 -31.12 -32.44 -32.44 -34.48 -32.28 -30.00			

TEST LIMITS = -28.0 Minimum

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MON (TERMINAL 9), V9P-SUBGROUPS A2,A3,A4 COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						3mA				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	_55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7530 M	1				+1.04	+1.04	+1.04			
7538 K	2				+1.16	+1.20	+1.28			
7532 Н	3				+1.16	+1.20	+1.28			
7538 J	4				+1.04	+1.00	+1.00			
7532 A	5				+1.04	+1.04	+1.04			
7530 M	6				+1.12	+1.12	+1.12			
7530 M	7				+1.16	+1.32	+1.36			
7538 B	8				+1.04	+1.04	+1.00			
7538 E	9				+1.04	+1.00	+1.00			
7538 A	10				+1.04	+1.00	+1.00			
7538 N	11				+1.16	+1.32	+1.36			
7538 R	12				+1.00	+ 96	+ 92			
7538 R	13				+1.08	+1.08	+1.12			
7538 H	14				+1.20	+1.32	+1.14			
7532 PP	15				+1.04	+1.00	+1.00			
7532 KK	16				+1.28	+1.44	+1.52			
7530 T	17				+1.16	+1.28	+1.36			
7538 C	18				+1.04	+1.00	+1.00			
7538 M	19				+1.20	+1.32	+1.36			
7529 P	20				+1.08	+1.04	+1.04			
7532 DD	21				+1.08	+1.08	+1.08			
7532 NN	22				+1.08	+1.08	+1.08			
7532 P	23				+1.04	+1.00	+1.00			
7532 N	24				+1.28	+1.44	+1.56			
7532 Z	25				+1.04	+1.04	+1.00			

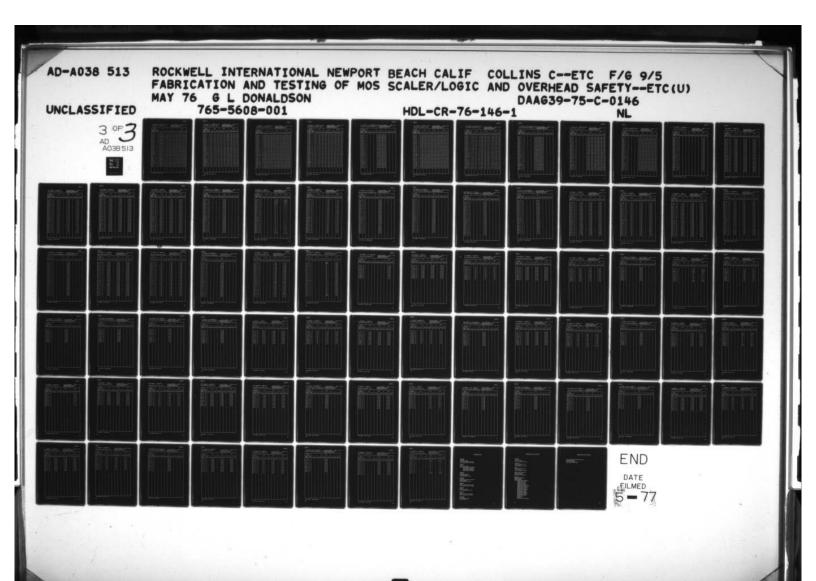
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CL (TERMINAL 10), V10M-SUBGROUPS A2,A3,A4 COLLINS DIVISIONS DATE 9-30-75
SCALER INPUT (NEGATIVE BREAKDOWN),V0LTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C
7530 M	1				26 00	25 00	-34.20			
7538 K	2					-31.92				
7532 H	3					-29.88				
7532 H	4					-34.48				
7532 A	5					-32.28				
7532 A	6					-32.60				
7530 M	7					-31.84				
7538 B	8					-33.92				
7538 E	9					-33.36				
7538 A	10					-36.96				
7538 N	11					-34.68				
7538 R	12					-33.12				
7538 R	13				1	-34.48				
7538 H	14				-33.84		-31.72			
7532 PP	15					-35.56				
7532 KK	16					-33.52				
7530 T	17				-31.40		-29.80			
7538 C	18					-35.48				
7538 M	19					-36.88				
7529 P	20					-30.84				
7532 DD	21					-33.32				
7532 NN	22					-33.52				
7532 P	23						-34.96			
7532 N	24					-32.44	1			
7532 Z	25					-32.36				

TEST LIMITS =-28.0V Minimum

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SP (TERMINAL 11)-SUBGROUPS A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identificat			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M 7538 K 7532 H 7532 A 7532 A 7530 M 7530 M 7538 B 7538 E 7538 A 7538 R 7538 R 7538 R 7538 H 7532 PP	NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	-10.04 -10.36 -10.16 -10.48 -10.52 -10.00 -10.04 -10.00 - 9.52 - 9.84 -10.32 -10.00 -10.36	-10.00 -10.32 -10.48 -10.08 -10.36 -10.44 - 9.88 -10.36 - 9.96 - 9.98 - 9.52 - 9.80 -10.28 - 10.28	- 9.92 -10.28 -10.40 -10.04 -10.32 -10.36 - 9.84 -10.32 - 9.92 - 9.84 - 9.72 -10.16 - 9.88 -10.28	-13.92 -14.28 -14.48 -14.04 -14.32 -14.44 -13.88 -14.36 -13.92 -13.80 -13.80 -14.20 -13.88 -14.24	-13.80 -14.20 -14.32 -13.92 -14.20 -14.28 -13.72 -14.24 -13.68 -13.68 -13.68 -14.08 -14.08 -14.16	-13.12 -14.08 -14.24 -13.88 -14.08 -14.20 -13.64 -14.16 -13.72 -13.60 -13.24 -14.00 -13.72 -14.04	-19.16 -19.64 -19.76 -19.64 -19.76 -19.16 -19.68 -19.20 -19.04 -18.68 -19.12 -19.56	-19.00 -19.48 -19.60 -19.20 -19.44 -19.56 -19.00 -19.52 -19.04 -18.84 -18.52 -19.00 -19.44 -19.00	-18.92 -19.40 -19.48 -19.12 -19.32 -19.44 -18.84 -19.00 -18.76 -18.84 -18.88 -19.32 -18.92 -19.28
7532 KK 7530 T 7538 C 7538 M 7529 P 7532 DD 7532 NN 7532 P 7532 N 7532 Z	16 17 18 19 20 21 22 23 24 25	-10.52	- 9.88 - 9.92 -10.04 -10.52 -10.36 -10.28 - 9.84	- 9.80 - 9.88 -10.00 -10.44 -10.32 -10.20 -9.80 -10.40	-13.76 -13.84 -13.92 -14.52 -14.36 -14.24 -13.72 -14.44	-13.64 -13.72 -13.84 -14.36 -14.24 -14.16 -13.60 -14.32	-13.56 -13.68 -13.76 -14.28 -14.16 -14.00 -13.52 -14.24	-19.12 -19.20 -19.80 -19.68 -19.56	-18.80 -18.96 -19.04 -19.64 -19.40 -18.76 -19.60	-19.28 -18.64 -19.48

TEST LIMITS = -8.0V to VDD

THE RESERVE THE PROPERTY OF THE PARTY OF THE

SP (TERMINAL 11) - SUBGROUPS A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identifica			-17.0V			-21.5V		-27.6V			
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C	
7530 M	1	48	64	84	84	84	-1.04	-1.36	-1.36	-1.36	
7538 K	2	48	60	76	76	80	-1.00	-1.24	-1.24	-1.28	
7532 H	3	52	60	80	84	84	-1.00	-1.32	-1.28	-1.32	
7538 J	4	44	56	76	76	76	-0.96	-1.24	-1.24	-1.24	
7532 A	5	52	64	80	84	84	-1.04	-1.28	-1.32	-1.36	
7530 M	6	52	64	80	84	84	-1.04	-1.32	-1.32	-1.36	
7530 M	7	48	60	80	80	80	-1.04	-1.28	-1.28	-1.32	
7538 B	8	44	56	76	76	76	92	-1.20	-1.20	-1.20	
7538 E	9	44	56	76	76	76	96	-1.24	-1.24	-1.24	
7538 A	10	44	56	76	72	72	88	-1.12	-1.12	-1.16	
7538 N	11	44	60	80	76	80	-1.04	-1.28	-1.28	-1.32	
7538 R	12	44	56	76	76	76	88	-1.20	-1.24	-1.24	
7538 R	13	52	64	84	84	84	-1.04	-1.36	-1.36	-1.40	
7538 H	14	48	60	80	80	84	-1.00	-1.28	-1.28	-1.28	
7532 PP	15	48	60	80	80	80	-1.04	-1.28	-1.28	-1.32	
7532 KK	16	52	60	80	84	84	-1.00	-1.28	-1.28	-1.36	
7530 T	17	48	60	76	80	80	-1.00	-1.28	-1.28	-1.28	
7538 C	18	44	56	76	76	76	92	-1.20	-1.20	-1.20	
7538 M	19	48	60	80	80	80	-1.04	-1.28	-1.28	-1.32	
7529 P	20	56	64	76	84	88	-1.00	-1.32	-1.32	-1.32	
7532 DD		48	60	76	80	80	-1.00	-1.28	-1.28	-1.28	
7532 NN		56	68	76	76	88	-1.00	-1.24	-1.24	-1.28	
7532 P	23	48	60	76	76	76	96	-1.24	-1.24	-1.24	
7532 N	24	48	60	76	80	80	-1.00	-1.28	-1.28	-1.28	
7532 Z	25	48	56	76	76	76	92	-1.20	-1.20	-1.24	

TEST LIMITS = 0.0V to -2.0V

LP (TERMINAL 12) - SUBGROUPS A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS

10

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M 7538 K 7532 H 7538 J 7532 A 7530 M 7538 B 7538 E 7538 A 7538 R 7538 R 7538 R 7538 A 7532 PP 7532 KK 7530 T 7538 C 7538 M 7529 P	NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	- 9.96 -10.44 -10.64 -10.32 -10.48 - 9.80 -10.40 -10.08 - 9.68 - 9.72 -10.00 -10.40 -10.56 -10.40 -10.56 -10.80	- 9.88 -10.36 -10.52 -10.00 -10.28 -10.36 - 9.72 -10.32 -10.04 - 9.84 - 9.60 - 9.64 - 9.88 -10.00 -10.32 -10.48 -10.32 - 9.92 -10.04 -10.72	- 9.84 -10.36 -10.48 - 9.92 -10.16 -10.32 - 9.68 -10.28 -10.00 - 9.80 - 9.56 - 9.88 - 9.92 -10.28 -10.28 -10.64	-13.80 -14.36 -14.56 -13.92 -14.20 -14.36 -13.68 -14.28 -14.00 -13.72 -13.56 -13.84 -13.92 -14.28 -14.28 -14.28 -14.28 -14.28	-13.68 -14.28 -14.44 -13.84 -14.00 -14.20 -13.52 -14.16 -13.88 -13.60 -13.48 -13.72 -14.16 -14.32 -14.16 -13.72 -13.84 -14.60	-13.60 -14.20 -14.32 -13.72 -13.92 -14.12 -13.44 -14.08 -13.52 -13.40 -13.68 -13.68 -14.04 -14.04 -14.04 -14.04 -14.04 -14.04 -14.04 -14.04	-19.04 -19.76 -19.92 -19.20 -19.44 -19.64 -18.96 -19.32 -18.96 -19.32 -18.96 -19.12 -19.20 -19.60 -19.60 -19.76 -19.60 -19.76 -19.04 -19.20 -20.12	-18.88 -19.60 -19.72 -19.08 -19.24 -19.44 -18.76 -19.16 -18.76 -19.00 -19.00 -19.08 -19.44 -19.60 -19.40 -19.40 -19.92	-18.80 -19.48 -19.64 -19.00 -19.12 -19.32 -18.64 -19.32 -19.08 -18.68 -18.68 -18.92 -19.00 -19.32 -19.48 -19.28 -19.28 -19.28
7532 DD 7532 NN			-10.36 -10.32	-10.32 -10.28			-14.16 -14.04		-19.48 -19.44	-19.40 -19.32
7532 P 7532 N	23 24		- 9.84 -10.40							
7532 Z	25	-10.48	-10.40	-10.32	-14.36	-14.24	-14.16	-19.72	-19.52	-19.40

TEST LIMITS = -8.0V to VDD

LP (TERMINAL 12) - SUBGROUPS A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7530M	1	24	40	44	40	52	52	64	64	68
7538K	2	24	40	40	40	48	52	60	64	64
7532H	3	24	40	40	40	52	52	60	64	68
7538J	4	24	40	40	36	44	48	56	60	60
7532A	5	24	40	40	40	48	48	60	64	64
7530M	6	24	40	40	40	48	52	60	64	64
7530M	7	24	40	44	40	48	52	60	64	64
7538B	8	24	40	40	36	44	44	56	56	60
7538E	9	24	40	40	40	48	48	60	60	64
7538A	10	24	36	36	36	44	44	56	56	56
7538N	11	24	44	44	40	52	56	64	68	68
7538R	12	24	40	40	36	44	48	56	60	60
7538R	13	24	40	40	40	48	48	60	64	64
7538H	14	24	40	40	40	48	48	60	64	64
7532PP	15	24	40	44	40	52	52	60	64	68
7532KK	16	24	40	40	40	48	48	60	64	64
7530T	17	28	44	44	44	52	52	64	64	68
7538C	18	24	40	40	40	44	48	56	60	60
7538M	19	24	40	40	40	48	52	60	64	64
7529P	20	28	40	44	44	52	52	64	68	68
7532DD	21	24	40	40	40	48	48	60	60	64
7532NN	22	28	40	40	40	48	48	60	60	64
7532P	23	24	40	40	40	48	48	60	60	60
7532N	24	24	40	40	40	48	48	60	64	64
7532Z	25	24	40	40	40	48	48	56	60	60

TEST LIMITS = 0.0V to -2.0V

INH (TERMINAL 13), V13M-SUBGROUPS A2,A3,A4_{COLLINS} DIVISIONS DATE 9-30-75
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Identific	e ation					10μΑ				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M	1				24 04	-34.08	22 22			
7538 K	2					-32.88				
7532 H	3					-30.28				
7538 J	4					-33.80				
7532 A	5					-32.44				
7530 M	6					-36.08				
7530 M	7					-32.28				
7538 B	8					-32.40				
7538 E	9					-31.16				
7538 A	10					-35.76				
7538 N	11				1.00	-35.12				
7538 R	12					-33.08				
7538 R	13					-36.24				
7538 H	14					-32.88				
7532 PP	15					-33.12				
7532 KK	16					-31.80				
7530 T	17					-30.24				
7538 C	18					-36.00				
7538 M	19				-37.44	-36.36	-35.16			
7529 P	20				-33.52	-32.64	-31.80			
7532 DD	21				-35.96	-34.84	-33.72			
7532 NN	22				-35.04	-34.04	-32.96			
7532 P	23				-39.20	-38.00	-36.84			
7532 N	24				-36.08	-35.12	-34.04			
7532 Z	25				-35.48	-34.44	-33.32			

TEST LIMITS = -28.0V Min.

G32 (TERMINAL 14)-SUBGROUPS A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

TEST LIMITS = -8.0V to VDD

G32 (TERMINAL 14)-SUBGROUPS A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

3

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V		-27.6V			
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C	
	NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14	-55°C 72686464687260687668726472	+25°C 72726868726468607672726872	+75°C 7672687276647264727664767276	-55°C 84807680887680768876887688	88 88 84 84 88 76 84 76 88 88 88	888888888880887692888889	-55°C -1.04 -1.00 -1.009696 -1.04929688 -1.0496 -1.0492 -1.04	+25°C -1.08 -1.08 -1.04 -1.08 -1.08 -1.0896 -1.0492 -1.08 -1.04 -1.08 -1.04 -1.08	+75°C -1.12 -1.08 -1.08 -1.08 -1.08 -1.12 -1.04 -1.0896 -1.12 -1.08 -1.108 -1.108 -1.08 -1.08	
7532 KK 7530 T 7538 C 7538 M 7529 P 7532 DD 7532 NN 7532 P 7532 N 7532 Z	17 18 19 20 21	68 64 72 68 68 72 68 68	72 72 68 72 68 72 72 72 72	72 72 68 72 72 72 72 72 72 68	84 80 76 80 80 80 80 76	88 80 88 84 84 84 84	88 84 88 88 88 88 88	-1.04 -1.00 92 -1.04 -1.00 -1.04 96 -1.00 92	-1.08 -1.04 -1.0 -1.08 -1.08 -1.08 -1.08 -1.08	-1.12 -1.08 -1.04 -1.12 -1.08 -1.12 -1.08 -1.08	

TEST LIMITS = 0.0V to -2.0V

FP (TERMINAL 15),V15M-SUBGROUPS A2,A3,A4_{COLLINS} DIVISIONS DATE 9-30-75
SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification						10μΑ				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M	1				-35.16	-34.40	-33.64			
7538 K	2				-34.24	-33.28	-32.36			
7532 H	3				-33.48	-32.64	-31.92			
7538 J	4				-39.52	-33.80	-37.48			
7532 A	5				-33.40	-32.44	-31.76			
7530 M	6				-37.84	-36.64	-35.80			
7530 M	7				-34.20	-33.36	-32.48			
7538 B	8				-36.32	-35.36	-34.36			
7538 E	9				-36.20	-35.12	-34.08			
7538 A	10				-36.68	-35.64	-34.60			
7538 N	11				-37.92	-36.76	-35.60			
7538 R	12				-33.08	-32.44	-31.72			
7538 R	13				-36.44	-35.52	-34.48			
7538 Н	14				-36.48	-35.32	-34.12			
7532 PP	15				-34.36	-33.40	-32.44			
7532 KK	16				-37.24	-36.16	-35.04			
7530 T	17				-34.68	-33.64	-32.64			
7538 C	18				-34.96	-33.88	-32.76			
7538 M	19				-35.52	-34.64	-33.64			
7529 P	20				-31.64	-31.00	-30.24			
7532 DD	21				-35.24	-34.36	-33.40			
7532 NN	22				-34.24	-33.36	-32.36			
7532 P	23					-33.40				
7532 N	24				-37.12	-36.12	-35.00			
7532 Z	25				-35.28	-34.20	-33.08			

Q6 (TERMINAL 16) - SUBGROUPS A2,A3,A4 SCALER OUTPUT (LOW LEVEL), VOLTS

10

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification	on		-17.0V			-21.5V			-27.6V	
The second secon	NIT NO.	−55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7530 M 7538 K 7532 H 7532 A 7530 M 7530 M 7538 B 7538 E 7538 A 7538 R 7538 R 7538 R 7538 H 7532 PP 7532 KK	NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	−55°C	+25°C	+75°C	-11.36 - 8.76 -10.68 -10.52 -11.48 -12.40 -11.64 -12.56 -11.28 -10.92 -10.32 - 7.76 -8.24 -12.92	- 6.84 - 7.60 - 8.12 - 6.76 - 8.04 - 7.52 - 6.96 - 7.64 - 7.08 - 7.92 - 6.84 - 6.80 - 7.00 - 7.44 - 7.68	- 6.56 - 7.32 - 7.88 - 6.52 - 7.72 - 7.24 - 6.72 - 7.36 - 6.84 - 7.60 - 6.56 - 6.76 - 7.16 - 7.12 - 7.40	-12.44 -13.40 -14.08 -14.08 -13.40 -12.76 -13.68 -12.88 -13.92 -12.60 -12.44 -12.56 -12.08 -13.20 -14.04	-11.00 -11.88 -12.44 -11.20 -12.28 -11.72 -11.36 -12.16 -11.88 -12.40 -11.32 -11.20 -11.28 -11.64 -11.60 -12.88	-10.52 -11.48 -12.04 -10.52 -11.88 -10.80 -11.52 -10.88 -10.64 -10.68 -10.80 -11.32 -11.48
7530 T 7538 C	17 18							-13.16 -13.20		
7538 M 7529 P 7532 DD 7532 NN 7532 P 7532 N 7532 Z	19 20 21 22 23 24 25				-12.24 -13.04 -10.04 -10.92 -11.92 -12.44	- 7.48 - 8.12 - 7.60 - 7.20 - 7.68	- 7.20 - 7.80 - 7.28 - 6.88 - 6 .92 - 7.40	-13.56 -14.64 -13.36 -12.92 -13.08 -13.80 -14.00	-12.40 -12.48 -11.76 -11.36 -12.00 -12.60	-11.28 -11.96 -11.36 -10.96 -10.88 -11.52

TEST LIMITS = -4.0V to VDD

Q6 (TERMINAL 16)-SUBGROUPS A2,A3,A4 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 9-30-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7530 M	1				-0.00	-0.00	0.00	-0.00	-0.00	-0.00
7538 K	2				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7532 H	3				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 J	4				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7532 A	5				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7530 M	6				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7530 M	7				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 B	8				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 E	9				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 A	10				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 N	11				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 R	12				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 R	13				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 H	14				-0.00	-0.00	-0.00	-0.00	=0.00	-0.00
7532 PP	15				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7532 KK	16				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7530 T	17	4.762			-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 C	18				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7538 M	19				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7529 P	20				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7532 DD	21				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7532 NN	22				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7532 P	23				-0.00		-0.00	-0.00	-0.00	-0.00
7532 N	24				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7532 Z	25				-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	141									

TEST LIMITS = 0.0V to -0.1V

IDD (TERMINAL 1), 1A-SUBGROUP BT SCALER BIAS (IDD CURRENT), MA

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7532 AA	26								-4.60	
7530 S	27								-5.00	
7538 T	28								-4.90	
7538 X	29								-5.00	
7532 M	30								-5.10	
7538 Z	31								-5.60	
7538 S	32								-4.90	
7532 X	33								-5.00	
7532 K	34								-4.90	
7530 N	35								-5.00	
7532 X	36								-4.90	
7532 L	37								-4.70	
7532 C	38								-4.80	
7532 BB	39								-5.10	
7532 D	40								-4.60	
7538 AA	41								-5.80	
7538 G	42								-4.40	
7530 J	43								-5.40	
7530 K	44								-5.20	
7530 G	45								-4.70	
7530 A	46								-5.00	
7530 U	47								-5.00	
7532 EE	48								-5.10	
7532 J	49								-4.90	
7532 H	50								-4.90	

TEST LIMITS =2.0mA to 10.0 mA

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ARM (TERMINAL 3) - SUBGROUP B1
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identifica			-17.0V			-21.5V		-27.6V		
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7532 AA	26		-16.96			-21.44			-27.55	
7530 S	27		-16.96			-21.44			-27.52	
7538 T	28		-16.96			-21.44			-27.52	
7538 X	29		-16.96			-21.44			-27.52	
7532 M	30		-16.96			-21.44			-37.52	
7538 Z	31		-16.96			-21.44			-27.52	
7538 S	32		-16.96			-21.44			-27.52	
7532 X	33		-16.96			-21.44			-27.52	
7532 K	34		-16.96			-21.44			-27.52	
7530 N	35		-16.96			-21.44			-27.52	
7532 X	36		-16.96			-21.44			-27.52	
7532 L	37		-16.96			-21.44			-27.52	
7532 C	38		-16.96			-21.44			-27.52	
7532 BB	39		-16.96			-21.44			-27.52	
7532 D	40		-16.96			-21.44			-27.52	
7538 AA	41		-16.96			-21.44			-27.52	
7538 G	42		-16.96			-21.44			-27.52	
7530 J	43		-16.96			-21.44			-27.52	
7530 K	44		-16.96			-21.44			-27.52	
7530 G	45		-16.96			-21.44			-27.52	
7530 A	46		-16.96			-21.44			-27.52	
7530 U	47		-16.96			-21.44			-26.60	
7532 EE	48		-16.96			-21.44			-27.52	
7532 J	49	,	-16.96			-21.44			-27.52	
7532 H	50		-16.96			-21.44			-27.52	
										L

TEST LIMITS = -16.9V to VDD

THE RESERVE OF THE PARTY OF THE

ARM (TERMINAL 3) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V		-21.5V			-27.6V		
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 AA	26		24			24			28	
7530 S	27		28			28			28	
7538 T	28		28			28			28	
7538 X	29		28			28			28	
7532 M	30		24			24			28	
7538 Z	31		24			24			24	
7538 S	32		28			28			28	
7532 X	33		20			24			24	
7532 K	34		28			28			28	
7530 N	35		24			24			28	
7532 X	36		28			28			28	
7532 L	37		28			28			28	
7532 C	38		28			28			28	
7532 BB	39		24			24			28	
7532 D	40		28			28			28	
7538 AA	41		28			28			28	
7538 G	42		28			28			28	
7530 J	43		24			24			28	
7530 K	44		24			24			28	
7530 G	45		28			28			28	
7530 A	46		28			28			28	
7530 U	47		28			28			28	
7532 EE	48		24			24			28	
7532 J	49		28			28			28	
7532 H	50		28			28			28	

FIRE (TERMINAL 4) - SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific		-17.0V			-21.5V		-27.6V			
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
DATE	UNIT NO. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40		+25°C -17.00	+75°C	−55°C	+25°C -21.56 -21.56 -21.52 -21.52 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56 -21.56		-55°C	+25°C -27.60	+75°C
7530 A 7530 U	46 47		-17.00 -17.00			-21.56 -21.52			-27.60 -27.60	
7532 EE 7532 J			-17.04 -17.00			-21.56 -21.56			-27.60 -27.60	
7532 H	50		-17.00			-21.56			-27.60	

TEST LIMITS = -16.9V to VDD

FIRE (TERMINAL 4) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific		17.0V				-21.5V		-27.6V		
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 AA	26		-2.84			-2.68			-2.80	
7530 S	27		-2.52			-2.52			-2.76	
7538 T	28		-2.40			-2.36			-2.52	
7538 X	29		-2.36			-2.36			-2.52	
7532 M	30		-2.32			-2.36			-2.52	
7538 Z	31		-2.24			-2.32			-2.48	
7538 S	32		-2.44			-2.40			-2.56	
7532 X	33		-2.16			-2.20			-2.44	
7532 K	34		-2.52			-2.52			-2.72	
7530 N	35		-2.48			-2.48			-2.68	
7532 X	36		-2.48			-2.52			-2.76	
7532 L	37		-2.72			-2.64			-2.80	
7532 C	38		-2.56			-2.52			-2.72	
7532 BB	39		-2.52			-2.56			-2.80	
7532 D	40		-2.60			-2.52			-2.68	
7538 AA	41		-2.48			-2.40			-2.56	
7538 G	42		-2.68			-2.60			-2.76	
7530 J	43		-2.32			-2.36			-2.60	
7530 K	44		-2.40			-2.48			-2.68	
7530 G	45		-2.44			-2.44			-2.64	
7530 A	46		-2.64			-2.56			-2.76	
7530 U	47		-2.64			-2.64			-2.84	
7532 EE	48		-2.20			-2.28			-2.48	
7532 J	49		-2.76			-2.64			-2.80	
7532 H	50		-3.12			-2.80			-2.92	

THE STATE OF STATE OF

G14 (TERMINAL 5), V5M - SUBGROUP B1 SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identifica						10 μA				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 AA	26					25.04				
7530 S	27					-35.84				
7538 T	28					-34.00				
7538 X	29					-40.44				
7532 M	30					-36.92 -32.48				
7538 Z	31					-32.48				
7538 S	32					-39.24				
7532 X	33					-39.24				
7532 K	34					-33.72				
7530 N	35					-30.52				
7532 X	36			1		-32.12				
7532 L	37					-32.24				
7532 C	38					-32.88				
7532 BB	39					-30.80				
7532 D	40					-33.36				
7538 AA	41					-34.08				
7538 G	42					-32.00				
7530 J	43					-28.80				
7530 K	44					-33.76				
7530 G	45					-34.52				
7530 A	46					-38.60				
7530 U	47					-33.36				
7532 EE	48					-34.52				
7532 J	49					-31.04				
7532 H	50					-36.60				

TEST LIMITS = -28.0V Minimum

Q4 (TERMINAL 6) - SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V		-27.6V		
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 AA	26					-21.52			-27.60	
7530 S	27					-21.52			-27.60	
7538 T	28					-21.52			-27.60	
7538 X	29					1			1	
7532 M	30									
7538 Z	31									
7538 S	32									
7532 X	33									
7532 K	34									
7530 N	35			At a 1						
7532 X	36									
7532 L	37									
7532 C	38									
7532 BB	39									
7532 D	40									
7538 AA	41									
7538 G	42									9
7530 J	43									
7530 K	44									
7530 G	45									
7530 A	46									
7530 U	47									
7532 EE	48									
7532 J	49					\lor			٧,	
7532 H	50					-21.52			-27.60	

TEST LIMITS =-21.4V to VDD

Q4 (TERMINAL 6) - SUBGROUP B1 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identific			-17.0V			-21.5V		-27.6V		
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°С	+25°C	+75°C	-55°C	+25°C	+75°C
7532 AA	26					76			76	
7530 S	27					76			72	
7538 T	28					72			72	
7538 X	29					76			72	
7532 M	30					72			68	
7538 Z	31					72			68	
7538 S	32					76			72	
7532 X	33					64			64	
7532 K	34					76			72	
7530 N	35					72			68	
7532 X	36					76			72	
7532 L	37					76			72	
7532 C	38					76			72	
7532 BB	39					72			72	
7532 D	40					76			72	
7538 AA	41					72			68	
7538 G	42					76			76	
7530 J	43					68			64	
7530 K	44					72			68	
7530 G	45					76			72	
7530 A	46					72			72	
7530 U	47					80			76	
7532 EE	48					68			68	
7532 J	49					76			76 .	
7532 H	50					80			76	

TEST LIMITS = 0.0V TO -2.6V

M11 (TERMINAL 7), V7M - SUBGROUP B1 COLLINS DIVISIONS

8

COLLINS DIVISIONS DATE 11-12-75
ROCKWELL INTERNATIONAL
NEWDORT REACH CALLE

SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS

NEWPORT BEACH, CALIF.

Identific	ce ation					10μΑ				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C
	NO. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	-55°C	+25°C	+75°C	-55°C	+25°C -36.00 -35.64 -39.32 -38.84 -36.76 -33.52 -36.44 -32.96 -30.84 -32.28 -33.84 -32.68 -33.84 -36.64 -31.76 -30.60 -31.72 -36.28 -34.88 -34.00 -33.12 -36.48	+75°C	-55°C	+25°C	+75°C

MON (TERMINAL 9), V9M-SUBGROUP B1 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

DATE 11-12-75 COLLINS DIVISIONS ROCKWELL INTERNATIONAL

DATE CODE NO55°C +25°C +75°C -55°C +25°C +75°C -55°C +25°C +75°C +75°	+75°C
7530 S 27 7538 T 28 -36.44 7538 X 29 -35.04 7532 M 30 -36.76	
7538 S 32 7532 X 33 7532 K 34 7530 N 35 7532 X 36 7532 L 37 7532 C 38 7532 BB 39 7532 D 40 7538 G 42 7530 J 43 7530 K 44 7530 G 45 7530 U 47 7532 EE 48 7532 J 49 7532 H 50 7532 K 34 -38.16 -34.56 -33.20 -31.40 -35.36 -31.60 -33.20 -31.68 -31.68 -31.68 -33.20 -34.00 -35.60 -31.68 -35.60 -31.68 -36.20 -34.56 -34.84 -36.20 -34.56 -34.84 -33.40 -36.88	

TEST LIMITS = -28.0 Minimum

MON (TERMINAL 9), V9P - SUBGROUP B1 SCALER INPUT (POSITIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL

3

DATE 11-12-75 COLLINS DIVISIONS NEWPORT BEACH, CALIF.

TEST LIMITS = 0.0V to +6.0V

CL (Terminal 10), V10M-SUBGROUP B1
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 11-12-25 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

7532 AA 7530 S	UNIT NO.	-55°C								
			+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7538 T 7538 X 7532 M 7532 X 7532 X 7532 X 7532 L 7532 C 7532 BB 7532 D 7538 AA 7538 G 7530 J 7530 G 7530 G 7530 G 7530 U 7532 EE 7532 J 7532 H	26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50		+25°C	+75°C	-55°C	+25°C -36.60 -37.16 -40.44 -37.04 -32.08 -39.60 -35.48 -33.16 -30.68 -33.52 -31.20 -35.76 -31.48 -33.32 -37.00 -32.12 -33.28 -33.36 -38.04 -35.76 -35.04 -35.44 -33.72 -37.08	+75°C	_55°C	+25°C	+75°C

TEST LIMITS = -28.0V Minimum

SP (TERMINAL 11) - SUBGROUP B1
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 AA	26		- 9.88			-13.72			-19.00	
7532 AA	26 27		-10.20			-14.00			-19.20	
7538 T	28		-10.16			-14.00			-19.28	
7538 X	29		-10.00			-13.80			-19.00	
7532 M	30 .		-10.16			-13.92			-19.12	
7532 H	31		-10.60			-14.52			-19.84	
7538 S	32		-10.48			-14.36			-19.72	
7532 X	33		-10.48			-14.36			-19.64	
7532 K	34		- 9.84			-13.56			-18.68	
7530 N	35		-10.16			-14.04			-19.36	
7532 X	36		-10.04			-13.84			-19.04	
7532 L	37		-10.08			-13.88			-19.12	
7532 C	38		-10.00			-13.84			-19.04	
7532 BB	39		-10.56			-14.44			-19.76	
7532 D	40		- 9.72			-13.52			-18.72	
7538 AA	41		-10.16			-14.00			-19.28	
7538 G	42		-10.00			-13.84			-19.04	
7530 J	43		-10.48			-14.36			-19.64	
7530 K	44		-10.32			-14.16			-19.40	
7530 G	45		- 9.80			-13.56			-18.76	
7530 A	46		-10.16			-14.00			-19.20	
7530 U	47		-10.04			-13.88			-19.08	
7532 EE	48		-10.48			-14.32			-19.56	
7532 J	49		- 9.88			-13.72			-18.96	
7532 Н	50		- 9.72			-13.52			-18.76	

TEST LIMITS = -8.0V to VDD

SP (TERMINAL 11) ~ SUBGROUP B1

SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 AA	26		60			80			-1.28	
7530 S	27		64			84			-1.36	
7538 T	28		60			84			-1.28	
7538 X	29		64			84			-1.28	
7532 M	30		60			80			-1.24	
7538 Z	31		68			88			-1.40	
7538 S	32		64			88			-1.36	
7532 X	33		56			76			-1.24	
7532 K	34		60			80			-1.28	
7530 N	35		60			84			-1.28	
7532 X	36		60			84			-1.36	
7532 L	37		64			84			-1.32	
7532 C	-3:8		60			84			-1.28	
7532 BB	39		64			88			-1.36	
7532 D	40		60			80			-1.28	
7538 AA	41		72			92			-1.44	
7538 G	42		56			76			-1.20	
7530 J	43		60			84			-1.32	
7530 K	44		60			84			-1.36	
7530 G	45		60			80			-1.28	
7530 A	46		60			84			-1.28	
7530 U	47		64			84			-1.36	
7532 EE	48		60			80			-1.24	
7532 J	49		60			84			-1.32 ,	
7532 H	50		64			84			-1.36	

LP (TERMINAL 12) - SUBGROUP B1 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C
7532 AA	26		- 9.88			-13.72			-19.04	
7530 S	27		-10.16			-13.92			-19.12	
7538 T	26		-10.16			-14.04			-19.32	
7538 X	29		-10.16			-14.00			-19.28	
7532 M	30		-10.56			-14.48			-19.76	
7538 Z	31		-10.64			-14.56			-19.92	
7538 S	32		-10.32			-14.20			-19.44	
7532 X	33		-10.80			-14.64			-20.00	
7532 K	34		-10.08			-13.84			-19.00	
7530 N	35		-10.08			-14.00			-19.28	
7532 X	36		-10.04			-13.84			-19.04	
7532 L	37		-10.12			-14.00			-19.28	
7532 C	38		- 9.96			-13.76			-19.00	
7532 BB	39		-10.44			-14.28			-19.52	
7532 D	40		9.68			-13.48			-18.68	
7538 AA	41		-10.20			-14.04			-19.40	
7538 G	42		- 9.84			-13.64			-18.84	
7530 J	43		-10.52			-14.44			-19.72	
7530 K	44		-10.16			-14.00			-19.28	
7530 G	45		-9.80			-13.56			-18.76	- 1.0%
7530 A	46		10.16			-14.00			-19.20	
7530 U	47		-10.08			-13.92			-19.16	
7532 EE	48		10.48			-14.32			-19.60	
7532 J	49		10.00			-13.84			-19.12,	
7532 H	50		9.72			-13.52			-18.68	
			1							
								L		

TEST LIMITS = -8.0V to VDD

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LP (TERMINAL 12) - SUBGROUPS B1

SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 AA	26		40			48			64	
7530 S	27		40			52			64	
7538 T	28		40			52			64	
7538 X	29		44			52			64	
7532 M	30		40			48			64	
7538 Z	31		44			56			72	
7538 S	32		40			48			64	
7532 X	33		40			48			60	
7532 K	34		40			52			64	
7530 N	35		40			48			64	
7532 X	36		44			52			64	
7532 L	37		44			52			64	
7532 C	38		44			52			64	
7532 BB	39		40			52			64	
7532 D	40		44			52			64	
7538 AA	41		44			56			72	
7538 G	42		40			44			60	
7530 J	43		40			52			64	
7530 K	44		44			52			68	
7530 G	45		40			48			60	
7530 A	46		40			52			64	
7530 U	47		44			52			64	
7532 EE	48		40			48			64	
7532 J	49		44			52			64 ,	
7532 H	50		44			52			68	
				*						

TEST LIMITS = 0.0V to - 2.0V

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INH (TERMINAL 13), V13M-SUBGROUP B1

COLLINS DIVISIONS DATE 11-12-75
ROCKWELL INTERNATIONAL

SCALER INPUT (NEGATIVE BREAKDOWN) VOLTS ROCKWELL INTERNATION NEWPORT BEACH, CALIF.

Devic Identific						10μΑ				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°С	+25°C	+75°C	−55°C	+25°C	+75°C
7532 AA	26					-37.68				
7530 S	27					-34.64				
7538 T	28					-40.96				
7538 X	29					-38.96				
7532 M	30					-33.48				
7538 Z	31					-32.36				
7538 S	32					-38.84				
7532 X	33					-31.60				
7532 K	34					-34.04				
7530 N	35					-31.12				
7532 X	36					-34.60				
7532 L	37					-31.68				
7532 C	38					-33.04				
7532 BB	39					-30.96				
7532 D	40					-32.60				
7538 AA	41					-37.32				
7538 G	42					-32.48				
7530 J	43					-33.20				
7530 K	44					-33.24				
7530 G	45					-36.44				
7530 A	46					-33.76				
7530 U	47					-34.52				
7532 EE	48					-34.56				
7532 J	49					-31.48				
/532 H	50					-32.56				
						-				
		7-11-								

TEST LIMITS = -28.0V Min.

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G32 (TERMINAL 14) - SUBGROUP B1

SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

7532 AA 7530 S 7538 T 7538 X 7532 M 7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X 7532 L	UNIT NO. 26 27 28 29 30 31	−55°C	+25°C - 9.92 -10.32	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7530 S 7538 T 7538 X 7532 M 7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X	27 28 29 30								725 C	+15°C
7530 S 7538 T 7538 X 7532 M 7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X	27 28 29 30									
7538 T 7538 X 7532 M 7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X	28 29 30		-10.32			-13.80			-19.12	
7538 X 7532 M 7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X	29 30					-14.16			-19.40	
7532 M 7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X	30		- 9.80			-13.64			-18.84	
7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X			-10.08			-13.88			-19.12	
7538 S 7532 X 7532 K 7530 N 7532 X	31		-10.48			-14.36			-19.64	
7532 X 7532 K 7530 N 7532 X			-10.68			-14.60			-19.96	
7532 K 7530 N 7532 X	32		-10.60			-14.52			-19.80	
7530 N 7532 X	33		-10.56			-14.44			-19.76	
7532 X	34		-10.16			-13.92			-19.12	
	35		-10.04			-13.92			-19.20	
7532 1	36		-10.04			-13.84			-19.08	
, 002 2	37		-10.04			-13.88			-19.16	
7532 C	38		-10.12			-14.00			-19.24	
7532 BB	39		-10.48			-14.32			-19.64	
7532 D	40		- 9.56			-13.36			-18.60	
7538 AA	41		-10.44			-14.36			-19.68	
7538 G	42		-10.08	12,60		-13.92			-19.16	
7530 J	43		-10.52			-14.36			-19.68	
7530 K	44		-10.12			-13.92			-19.16	
7530 G	45		- 9.80			-13.60			-18.80	
7530 A	46		-10.16			-14.00		1.1	-19.80	
7530 U	47		-10.04			-13.88			-19.12	
7532 EE	48		-10.56			-14.40			-19.68	
7532 J	49		-10.00			-13.88			-19.12	
7532 H	50		- 9.92			-13.80			-19.04	

TEST LIMITS = -8.0V to VDD

THE RESERVE OF THE PROPERTY OF

G32 (TERMINAL 14) - SUBGROUP B1

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

SCALER OUTPUT (HIGH LEVEL), VOLTS

Devic Identific			-17.0V			-21.5V		-1.08 -1.08 -1.08 -1.08 -1.16 -1.08 -1.04 -1.04 -1.08		
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C
7532 AA	26		72			88			-1.08	
7530 S	27		72			88			-1.08	
7538 T	28		72			84			-1.08	
7538 X	29		72			88			-1.08	
7532 M	30		72			88			-1.08	
7538 Z	31		76			92			-1.16	
7538 S	32		76			84			-1.08	
7532 X	33		64			80			-1.04	
7532 K	34		72			88			-1.08	
7530 N	35		72			84			-1.04	
7532 X	36		72			88			-1.08	
7532 L	37		72			88			-1.08	
7532 C	38		72			88			-1.08	
7532 BB	39		72			88			-1.08	
7532 D	40		72			88			-1.08	
7538 AA	41		76			92			-1.20	
7538 G	42		68			84			-1.04	
7530 J	43		72			88			-1.08	
7530 K	44		72			88			-1.08	
7530 G	45		72			84			-1.04	
7530 A	46		72			88			-1.08	
7530 U	47		76			88			-1.12	
.7532 EE	48		6 8			.84			-1.08	
7532 J	49		72			88			-1.08	
7532 H	50		76			88			-1.12	

TEST LIMITS = 0.0V to -2.0V

FP (TERMINAL 15), V15M-SUBGROUP B1

SCALER INPUT(NEGATIVE BREAKDOWN) VOLTS ROCKWELL INTERNATION NEWPORT BEACH, CALL

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devi Identifi						10μ A				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
	NO. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47	-55°C	+25°C	+75°C	_55°C	+25°C -37.80° -33.52 -40.48 -40.40 -35.96 -33.24 -39.96 -36.72 -35.00 -33.64 -32.68 -34.36 -33.60 -33.52 -33.08 -30.48 -32.24 -37.16 -36.36 -35.68 -34.20 -32.68 -34.32	+75°C	_55°C	+25°C	+75°C

TEST LIMITS = -28.0V Minimum

Q6 (TERMINAL 16) - SUBGROUP B1
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7532 ÅA 7530 S 7538 T 7538 X 7532 M 7538 Z 7538 S 7532 X 7532 K 7530 N 7532 X 7532 L 7532 C 7532 BB 7532 D 7538 AA 7538 G 7530 J 7530 K 7530 G	UNIT NO. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	-55°C	+25°C	+75°C	-55°C	- 6.96 - 7.36 - 7.44 - 7.92 - 7.68 - 8.24 - 7.76 - 8.04 - 7.00 - 7.68 - 7.24 - 7.32 - 7.32	+75°C	-55°C	-11.16 -11.56 -12.08 -12.28 -11.96 -12.84 -12.08 -13.12 -11.08 -11.56 -12.40 -11.64 -11.72 -12.24 -10.96 -11.64 -11.48 -13.16 -11.48	+75°C
7530 A 7530 U	46 47					- 7.12 - 7.44			-11.16 -11.64	
7532 EE	48					- 8.04 - 7.04			-12.32 -11.28	
7532 J /532 H	49 50			•		- 7.00			-11.60	

TEST LIMITS = -4.0V to VDD

THE RESERVE THE PROPERTY OF THE PARTY OF THE

Q6 (TERMINAL 16) - SUBGROUP B1

SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identific	ation		-17.0V			-21.5V			-27.6V	
CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 ÅA 7530 S 7538 T 7538 X 7532 M 7538 S 7532 X 7532 K 7530 N 7532 X 7532 L 7532 C 7532 BB 7532 D 7538 G 7530 J	UNIT NO. 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43	_55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.00 -0.04 -0.04 -0.04 -0.04 -0.04	+75°C
7530 K 7530 G 7530 A 7530 U 7532 EE 7532 J 7532 H	44 45 46 47 48 49 50					-0.00			-0.04 -0.00 -0.04 -0.00 -0.04 -0.00	
								,		

TEST LIMITS = 0.0V to -0.1V

IDD (TERMINAL 1), 1A - SUBGROUP BZA SCALER BIAS (IDD CURRENT), MA

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

		-27.6V	
+75°C	-55°C	+25°C	+75°C
		-4.20	
		-4.80	
		-5.00	
		-4.80	
		-4.70	
		-4.60	
		-5.40	
		-4.60	
		-4.70	
		-5.90	
TE ST			
	+75°C	+75°C -55°C	-4.20 -4.80 -5.00 -4.80 -4.70 -4.60 -5.40 -4.60 -4.70

Market Branch Committee of the Committee

TEST LIMITS = 2.0mA to 10.0mA

ARM (TERMINAL 3) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device —1		-17.0V		-21.5V			-27.6V		
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		-17.00			-21.48			-27.52	
7532 Y	52		-16.96			-21.48			-27.52	
7538 Cd	53		-16.96			-21.48			-27.52	
7538 DD	54		-16.96			-21.48			-27.52	
7538 D	55		-17.00			-21.48			-27.52	
7531 A	56		-16.96			-21.48			-27.52	
7538EE	57		-16.96			-21.48			-27.52	
7538GG	58		-16.92			-21.48			-27.52	
7538DD	59		-16.96			-21.48			-27.52	
7538EE	60		-16.96			-21.48			-27.52	
42										

ARM (TERMINAL 3) - SUBGROUP B2
SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

		NEWFORT BEACH, CALIF.								
	Device Identification		-17.0V		-21.5V			-27.6V		
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		21			21			24	
7532 Y	52		28			24			28	
7538 CC	53		23			21			22	
7538 DD	54		24			20			24	
7538 D	55		25			24			25	
7531 A	56		28			24			24	
7538EE	57		20			20			24	
7538GG	58		26			24			28	
7538DD	59		22			22			22	
7538EE	60		22			24			24	

TEST LIMITS = 0.0V to -2.0V

FIRE (TERMINAL 4) - SUBGROUP B2
SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

DATE CODE NO55°C +25°C +75°C -55°C +25°C +75°C +75°C +75°C +75°C +75°C +75°C +75°C -55°C +25°C +75°C +75°	+75°C
7532 Y 52 -16.92 -21.48 -27.52 7538 CC 53 -16.96 -21.48 -27.52 7538 DC 54 -16.96 -21.48 -27.52 7538 D 55 -16.96 -21.48 -27.52 7531 A 56 -16.96 -21.48 -27.52 7538EE 57 -16.96 -21.48 -27.52 7538GG 58 -16.96 -21.48 -27.52 7538DD 59 -16.96 -21.48 -27.52 -27.52 -27.52 -27.52 -27.52	
7532 Y 52 -16.92 -21.48 -27.52 7538 CC 53 -16.96 -21.48 -27.52 7538 DC 54 -16.96 -21.48 -27.52 7538 D 55 -16.96 -21.48 -27.52 7531 A 56 -16.96 -21.48 -27.52 7538EE 57 -16.96 -21.48 -27.52 7538GG 58 -16.96 -21.48 -27.52 7538DD 59 -16.96 -21.48 -27.52 -27.52 -27.52 -27.52 -27.52	
7532 Y 52 -16.92 -21.48 -27.52 7538 CC 53 -16.96 -21.48 -27.52 7538 DC 54 -16.96 -21.48 -27.52 7538 D 55 -16.96 -21.48 -27.52 7531 A 56 -16.96 -21.48 -27.52 7538EE 57 -16.96 -21.48 -27.52 7538GG 58 -16.96 -21.48 -27.52 7538DD 59 -16.96 -21.48 -27.52 -27.52 -27.52 -27.52 -27.52	
7538 DD 54 -16.96 -21.48 -27.52 7538 D 55 -16.96 -21.48 -27.52 7531 A 56 -16.96 -21.48 -27.52 7538EE 57 -16.96 -21.48 -27.52 7538GG 58 -16.96 -21.48 -27.52 7538DD 59 -16.96 -21.48 -27.52	
7538 D 55	
7531 A 56	
7538EE 57 -16.96 -27.52 7538GG 58 -16.96 -21.48 -27.52 7538DD 59 -16.96 -21.48 -27.52	
7538GG 58 -16.96 -27.52 7538DD 59 -16.96 -21.48 -27.52	
7538DD 59 -16.96 -21.48 -27.52	
27.02	
7538EE 60 -16.96 -21.48 -27.52	

TEST LIMITS = -16.9V to VDD

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FIRE (TERMINAL 4) - SUBGROUP B2

SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

		NEWFORT BEACH, CALIF.								
Device Identification		-17.0V		-21.5V			-27.6V			
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		-2.24			-2.32			-2.68	
7532 Y	52		-2.28			-2.36			-2.68	
7538 CC	53		-2.36			-2.36			-2.44	
7538 DD	54		-2.36			-2.40			-2.60	
7538 D	55		-2.60			-2.60			-2.80	
7531 A	56		-2.64			-2.60			-2.76	
7538EE	57		-2.28			-2.24			-2.44	
7538GG	58		-2.76			-2.56			-2.52	
7538DD	59		-2.24			-2.32			-2.60	
7538EE	60		-2.00			-2.16			-2.44	

TEST LIMITS =0.0V to -10.0V

G14 (TERMINAL 5), V5M-SUBGROUP B2 SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL

DATE 11-12-75 COLLINS DIVISIONS NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE	UNIT	0-	2509	550 0	00	2500	0-	−55°C	.0500	+75°C
CODE	NO.	-55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51.					-32.04				
7532 Y	52					-34.80				
7538 CC	53					-36.72				
7538 DD	54					-39.40				
7538 D	55					-33.04				
7531 A	56					-31.64				
7538EE	57					-36.12				
7538GG	58					-38.36				
7538DD	59					-40.08				
7538EE	60					-33.24				
150										
	388.1									

TEST LIMITS = -28.0V Minimum

Q4 (TERMINAL 6) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device Identification		-17.0V			-21.5V			-27.6V		
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	
7532 G	51					-21.48			-27.52		
7532 Y	52					-21.48			-27.52		
7538 CC	53					-21.48			-27.52		
7538 DD	54					1			4		
7538 D	55										
7531 A	56										
7538EE	57										
7538GG	58										
7538DD	59										
7538EE	60					-21 . 48			-27.52		

Q4(TERMINAL 6) - SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device Identification		-17.0V			-21.5V			-27.6V		
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	
		00 0	200	100	00 0	20 0	100				
7522.0											
7532 G	51					76			80		
7532 Y 7538 CC	52 53					56			60		
7538 DD						76			52		
7538 DL	55					56			56		
7531 A	56					48			60		
7538EE	57					84			80		
7538GG	58					48			60		
7538DD	59					84 76			60		
7538EE	60					56			76		
733022	00					56			52		
	7										
						,					
								*			

TEST LIMITS = 0.0V to -2.6V

The same of the sa

M 11 (TERMINAL 7), V7M - SUBGROUP B2 SCALER INPUT(NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

		NEWFORT BEACH, CALIF.								
Device Identifica						10 _u A		4.0		
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51					-32.24				
7532 Y	52					-35.44				
7538 CC	53					-32.44				
7538 DD	54					-40.08				6.
7538 D	55					-36.20				
7531 A	56					-32.04				
7538EE	57					-35.96				
7538GG	58					-37.52				
7538DD	59					-40.68				
7538EE	60					-35.96				

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MON (TERMINAL 9), V9M-SUBGROUP B2 COLLINS DIVISIONS DATE 11-12-75 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

		NEWTORT BENEIT, ORDER								
Device Identifica						10μΑ				
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 G	51					-31.68				
7532 Y	52					-35.48				
7538 CC	53					-31.60				
7538 DE	54					-40.52				
7538 D	55					-36.76				
7531 A	56					-32.44				
7538EE	57					-37.72				
7538GG	. 58					-38.24				
7538DD	59					-40.64				
7538EE	60					-36.56				

MON (TERMINAL 9), V9P - SUBGROUP B2 SCALER INPUT (POSITIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification						3 m A				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 G	51					+1.04	10.2			
7532 Y	52					+1.04				
7538 CC	53					+1.20				
7538 DE	54					+1.36				
7538 D	55					+1.04				
7531 A	56					+1.28				
7538EE	57					+4.08				
7538GG	58					+1.20				
7538DD	59					+1.44				
7533EE	60					+1.20				

TEST LIMITS = 0.0V to +6.0V

CL (TERMINAL 10), V10M-SUBGROUP B2

SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identifica						10μΑ				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 G	51					-31.88				
7532 Y	52					-35.96				
7538 CC	53					-34.56				
7538 DD	54					-39.64				
7538 D	55					-36.92				
7531 A	56					-32.76				
7538EE	57					-39.00				
7538GG	58					-38.56				
7538DD	59					-40.80				
7538EE	60					-37.32				
	3 3 5									

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SP (TERMINAL 11) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

SCALER OF	01701 (LON LLV	LL/, VO	L13	ı.	MEWIOR	I DEACI	i, CALIF		
	Device —17.0V			-21.5V			-27.6V			
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		-10.20			-14.00			-19.20	
7532 Y	52		-10.16			-14.00			-19.28	
7538 CC	53		-10.72			-14.64			-20.04	
75,38 DD	54		-10.04			-13.88			-19.12	
7538 D	55		-10.08			-13.88			-19.12	
7531 A	56		- 9.88			-13.68			-18.88	
7538EE	57		-10.20			-14.04			-19.32	
7538GG	58		- 9.88			-13.72			-18.96	
7538DD	59		- 9.92			-13.76			-19.00	
7538EE	60		-10.36			-14.24			-19.56	
	•									

SP (TERMINAL 11) - SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Devic Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55°С	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		56			72			-1.12	
7532 Y	52		76			80			-1.68	
7538 CC	53		56			-1.08			-1.64	
7538 DE	54		60			80			-1.24	
7538 D	55		61			76			-1.72	
7531 A	56		56			76			-1.20	
7538EE	57		76			80			-1.52	
7538GG	58		56			44			-1.28	
7538DD	59		76			-1.32			-1.20	
7538EE	60		68			96			-1.48	

TEST LIMITS = 0.0V to -2.0V

The same of the sa

LP (TERMINAL 12) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL) VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

							I BEACE	., 011211		
Devic Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		-10.20			-14.00			-19.24	
7532 Y	52		-10.16			-14.00			-19.28	
7538 CC	53		-10.76			-14.68			-20.08	
7538 DD	54		-10.00			-13.48			-19.04	
7538 D	55		-10.24			-14.08			-19.36	
7531 A	56		-10.00			-13.84			-19.04	
7538EE	57		-10.16			-14.00			-19.28	
7538GG	58		- 9.72			-13.52			-18.68	
7538DD	59		-10.08			-13.92			-19.20	
7538EE	60		-10.32			-14.20			-19.44	

LP (TERMINAL 12)-SUBGROUPS **B2**SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		34			24			76	
7532 Y	52		36			56			84	
7538 CC	53		44			84			76	
7538 DD	54		36			44			56	
7538 D	55		39			56			76	
7531 A	56		44			44			84	
7538EE	57		44			56			56	
7538GG	58		44			44			76	
7538DD	59		44			48			76	
7538EE	60		48			76			48	
		,								

TEST LIMITS = 0.0V to -2.0V

INH (TERMINAL 13), V13M-SUBGROUP B2

DATE 11-12-75 COLLINS DIVISIONS SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

							1 DEACI			
Device Identifica						10μΑ				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 G	51					-30.88				
7532 Y	52					-35.08				
7538 CC	53					-29.68				
7538 DD	54					-40.08				
7538 D	55					-33.24				
7531 A	56					-31.16				
7538EE	57					-37.76				
7538GG	58					-39.28				
7538DD	59					-40.84				
7538EE	60					-38.80				

TEST LIMITS = -28.0V Min.

G32 (TERMINAL 14) - SUBGROUP B4

SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°С	+25°C	+75°C	-55°C	+25°C	+75°C
				3,5						
7532 G	51		-10.28			-14.08			-19. 3 2	Th T
7532 Y	52		-10.16			-14.00			-19.28	
7538 CC	53		-10.60			-14.52			-19.84	
7538 DE	54		- 9.92			-13.76			-19.00	
7538 D	55		-10.20			-14.04			-19.32	
7531 A	56		-10.08			-13.92			-19.16	
7538EE	57		-10.20			-14.04			-19.32	
7538GG	58		- 9.80			-13.56			-18.80	
7538DD	59		- 9.96			-13.76			-19.00	
7538EE	60		-10.32			-14.00			-19.48	
No.										

TEST LIMITS = -8.0V to VDD 244

G32 (TERMINAL 14) - SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

		(IIIIIII E					1 DEACI			
Device Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51		60			76			92	
7532 Y	52		68			84			-1.04	
7538 Cd	53		68			84			-1.04	
7538 DD	54		68			84			-1.04	
7538 D	55		68			84			-1.08	
7531 A	56		68			84			-1.04	
7538EE	57		72			84			-1.08	
7538GG	58		72			84			-1.04	
7538DD	59		72			84			-1.04	
7538EE	60		76			88			-1.12	

FP (TERMINAL 15), V15M- SUBGROUP B2
SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

						EWIOIC	· bbitei	i, CALIF		
Devic Identifica						10μΑ				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 G	51					-33.52				
7532 Y	52					-35.56				
7538 CC	53					-36.40				
7538 DD	54					-39.08				
7538 D	55					-36.24				
7531 A	56					-33.24				
7538EE	57					-36.88				
7538GG	58					-38.00				
7538DD	59					-40.12				
7538EE	60					-37.80				

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Q6 (TERMINAL 16) - SUBGROUP B2 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7532 G	51					-7.04			-11.16	
7532 Y	52					-7.52			-12.28	
7538 CC	53					-8.44			-12.92	
7538 DE	54					-7.28			-11.72	
7538 D	55					-7.20			-11.76	
7531 A	56					-7.28			-11.76	
7538EE	57					-8.12			-12.44	
7538GG	58					-6.32			-10.72	
7538DD	59					-7.60			-11.92	
7538EE	60					-8.36			-12.08	

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Q6 (TERMINAL 16)-SUBGROUP B2 SCALER OUTPUT (HIGH LEVEL), VOLTS COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°С	+25°C	+75°C	–55°C	+25°C	+75°C
7532 G	51					-0.00			-0.00	
7532 Y	52					1			4	
7538 CC	53									
7538 DE	54									
7538 D	55									
7531 A	56									
7538EE	57									
7538GG	58									
7538DD	59								+	
7538EE	60					-0.00			-0.00	
				,						

THE RESERVE OF THE PROPERTY OF

IDD (TERMINAL 1), 1A-Subgroup B3 SCALER BIAS (IDD CURRENT), MA

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7538 NN	76								-5.00	
7538 X	77								-4.90	
7538 LL	78								-4.80	
7532 NN	79								-4.70	
7532 H	80								-5.00	
7532 PP	81								-5.00	
7532 CC	82								-5.00	
7532 K	83								-5.10	
7532 BB	84								-4.70	
7532 U	85								-4.60	

TEST LIMITS = 2.0mA to 10.0mA

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ARM (TERMINAL 3) - SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	–55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7538 NN 7538 X 7538 LL	76 77 78		-16.96 -17.00 -16.96			-21.48 -21.48 -21.48			-27.52 -27.52 -27.52	
7532 NN 7532 H 7532 PP	79 80 81		-16.96 -16.96 -16.96			-21.48 -21.48 -21.48			-27.52 - 27. 52 -27.52	
7532 CC 7532 K 7532 BB	82 83 84		-16.96 -16.96 -16.96			-21.48 -21.48 -21.48			-27.52 -27.52 -27.52	
7532 U	85		-16.96			-21.48			-27.52	

TEST LIMITS = -16.9V to VDD

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ARM (TERMINAL 3) - SUBGROUP B3

SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7538 NN	76		24			24			24	
7538 X	77		28			24			28	
7538 LL	78		24			24			24	
7532 NN	79		23			24			25	
7532 H	80		24			24			24	
7532 PP	81		28			28			28	
7532 CC	82		24			28			28	
7532 K	83		23			24			24	
7532 BB	84		24			24			25	
7532 U	85		24			24			25	

TEST LIMITS = 0.0V to -2.0V

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FIRE (TERMINAL 4) - SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V		I, ONDI	-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76		-16.96			-21.48			-27.52	
7538 X	77		-16.96			-21.48			-27.52	
7538 LL	78		-16.96			-21.48			-27.52	
7532 NN	79		-16.96			-21.48			-27.52	
7532 H	80		-16.96			-21.48			-27.52	
7532 PP	81		-16.96			-21.48			-27.52	
7532 CC	82	5	-16.96			-21.48			-27.52	
7532 K	83		-16.96			-21.48			-27.52	
7532 BB	84		-16.96			-21.48			-27.52	
7532 U	85		-16.96			-21.48			-27.52	

TEST LIMITS = -16.9V to VDD 252

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FIRE (TERMINAL 4) - SUBGROUP B3

SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	–55°C	+25°C	+75°C
7538 NN	76		-2.36			-2.28			-2.40	
7538 X	77		-2.52			-2.44			-2.40	
7538 LL	78		-2.28			-2.28			-2.60	
7532 NN	79		-2.52			-2.40			-2.60	
7532 H	80		-2.52			-2.44			-2.76	
7532 PP	81		-2.60			-2.40			-2.76	
7532 CC	82		-2.36			-2.40			-2.60	
7532 K	83		-2.44			-2.44			-2.60	
7532 BB	84		-2.60			-2.60			-2.88	
7532 U	85		-2.60			-2.60			-2.72	

TEST LIMITS = 0.0V to -10.0V

G14 (TERMINAL 5), V5M-SUBGROUP B3

SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	–55 ⁰ С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76					-33.16				
7538 X	77					-35.80				
7538 LL	78					-40.04				
7532 NN	79					-34.24				
7532 H	80					-33.08				
7532 PP	81					-31.68				
7532 CC	82					-30.20				
7532 K	83					-31.16				
7532 BB	84					-33.24				
7532 U	85					-32.88				

TEST LIMITS = -28.0V Minimum

Q4 (TERMINAL 6) - SUBGROUP B3

COLLINS DIVISIONS DA' ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

DATE 11-12-75 ONAL

SCALER OUTPUT (LOW LEVEL), VOLTS

Device Identifica			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76					-21.48			-27.52	
7538 X	77					-21.48			-27.52	
7538 LL	78					-21.48			-27.52	
7532 NN	79					-21.48			-27.52	
7532 H	80					-21.48			-27.52	
7532 PP	81					-21.48			-27.52	
7532 CC	82					-21.48			-27.52	
7532 K	83					-21.48			-27.52	
7532 BB	84					-21.48			-27.52	
7532 U	85					-21.48			-27.52	
				LA.						

TEST LIMITS = -21.4V to VDD

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Q4 (TERMINAL 6) - SUBGROUP B3

COLLINS DIVISIONS ROCKWELL INTERNATIONAL

DATE 11-12-75

SCALER OUTPUT (HIGH LEVEL), VOLTS

NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76					56			52	
7538 X	77					56			72	
7538 LL	78					84			60	
7532 NN	79					84			72	
7532 H	80					76			72	
7532 PP	81					84			80	
7532 CC	82					76			72	
7532 K	83					84			60	
7532 BB	84					84			72	
7532 U	85					56			72	

TEST LIMITS = 0.0V to -2.6V

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M11 (TERMINAL 7), V7M - SUBGROUP B3 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS NEWPORT BEACH, CALIF.

DATE 11-12-75 COLLINS DIVISIONS ROCKWELL INTERNATIONAL

Device Identification				*		1CµA				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN 7538 X 7538 LL	76 77 78					-37.68 -34.16 -40.12				
7532 NN 7532 H	79 80					-33.40 -32.08				
7532 PP 7532 CC 7532 K	81 82 83					-32.32 -32.00 -30.36				
7532 BB 7532 U	84 85					-33.84 -32.52				

TEST LIMITS = -28.0V Minimum

MON (TERMINAL 9), V9M-SUBGROUP B3 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL

DATE 11-12-75 COLLINS DIVISIONS NEWPORT BEACH, CALIF.

Device Identifica						10μΑ.				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76					-34.80				
7538 X	77					-36.40				
7538 LL	78			* .		-40.28				
7532 NN	79					-34.56				
7532 H	80					-33.00				
7532 PP	81					-31.92				
7532 CC	82					-33.60				
7532 K	83					-31.08				
7532 BB	84					-35.00				
7532 U	85					-33.44				
										3

TEST LIMITS = -28.0 Minimum

MON (TERMINAL 9), V9P - SUBGROUP B3 COLLINS DIVISIONS DATE 11-12-75 SCALER INPUT (POSITIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

							1 BEACT			
Device Identific						3 _m A				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76					+1.16				
7538 X	77					+1.28				
7538 LL	78					+1.12				
7532 NN	79					+1.16				
7532 H	80					+1.36				
7532 PP	81					+1.04				
7532 CC	82					+1.04				
7532 K	83					+1.08				
7532 BB	84					+1.16				
7532 U	85					+1.36				

TEST LIMITS = 0.0V to +6.0V

CL (TERMINAL 10), V10M - SUBGROUP B3 COLLINS DIVISIONS DATE 11-12-75 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identifie						10μ A		I, ONDI		
DATE	UNIT	5500	, or 0 <i>a</i>	+75°C	rr0a	+25°C	. mr.0c	−55°C	+25°C	+75°C
CODE	NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76					-36.76				
7538 X	77					-36.12				
7538 LL	78					-40.28				
7532 NN	79					-34.40				
7532 H	80					-33.40				
7532 PP	81					-32.36				
7532 CC	82					-31.84				
7532 K	83					-31.68				
7532 BB	84					-35.84				
7532 U	85					-35.00				

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SP (TERMINAL 11) - SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76		-10.52			-14.48			-19.76	
7538 X	77		-10.04			-13.88			-19.20	
7538 LL	78		- 9.96			-13.76			-19.00	
7532 NN	79		-10.16			-13.96			-19.20	
7532 H	80		-10.08			-13.92			-19.20	
7532 PP	81		-10.48			-14.36			19.64	
7532 CC	82		-10.36			-14.20			-19.48	
7532 K	83		-10.32			-14.20			19.44	
7532 BB	84		-10.04			-13.84			19.00	
7532 U	85		-10.28			-14.16			19.44	

TEST LIMITS = -8.0V to VDD

SP (TERMINAL 11) - SUBGROUPS B3 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identification			-17.0V	*		-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C
7538 NN	76		72			84			-1.20	
7538 X	77		84			76			-1.36	
7538 LL	78		56			80			-1.52	
7532 NN	79		76			80			-1.28	
7532 H	80		60			76			-1.32	
7532 PP	81		76			80			-1.32	
7532 CC	82		56			-1.08			-1.72	
7532 K	83		68			80			-1.36	
7532 BB	84		76			76			-1.36	
7532 U	85		60			76			-1.28	
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LP (TERMINAL 12) ~ SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

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Device Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76		-10.48			-14.44			-19.72	
7538 X	77		- 9.96			-13.88			-19.16	
7538 LL	78		-10.00			-13.80			-19.00	
7532 NN	79		-10.16			-14.00			-19.20	
7532 H	80		- 9.96			-13.76			-19.00	
7532 PP	81		-10.32			-14.20			-19.44	
7532 CC	82		-10.32			-14.20			-19.44	
7532 K	83		-10.36			-14.24			-19.56	
7532 BB	84		-10.04			-13.84			-19.00	
7532 U	85		-10.32			-14.32			-19.48	

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LP (TERMINAL 12) - SUBGROUP B3

SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device Identification		-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76		36			56			84	
7538 X	77		44			44			48	
7538 LL	78		36			24			56	
7532 NN	79		36			44			84	
7532 H	80		36			44			48	
7532 PP	81		32			44			56	
7532 CC	82		40			40			48	
7532 K	83		40			48			56	
7532 BB	84		40			44			76	
7532 U	85		36			44			76	

TEST LIMITS = 0.0V to -2.0V

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INH (TERMINAL 13), V13M- SUBGROUP B3 COLLINS DIVISIONS SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL

DATE 11-12-75 NEWPORT BEACH, CALIF.

Device Identific						10μΑ				
DATE CODE	UNIT NO.	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7538 NN	76					-35.20				
7538 X	77					-33.52				
7538 LL	78					-40.12				
7532 NN	79					-32.08				
7532 H	80					-33.20			47.35	
7532 PP	81					-32.08				
7532 CC	82					-31.80				
7532 K	83					-31.00				
7532 BB	84					-35.00				
7532 U	85					-33.44				
				LY DAG L						

TEST LIMITS = -28.0V Min.

G32 (TERMINAL 14) - SUBGROUP B3 SCALER OUTPUT (LOW LEVEL),

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	HEMORT BENON, ONE									
Devic Identific			-17.0V			-21.5V			-27.6V	
DATE CODE	UNIT NO.	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C	−55°C	+25°C	+75°C
7538 NN	76		-10.48			-14.36			-19.68	
7538 X	77		-10.00			-13.88			-19.20	
7538 LL	78		-10.04			-13.88			-19.12	
7532 NN	79		-10.16			-14.00			-19.20	
7532 H	80		- 9.92			-13.72			-19.00	
7532 PP	81		-10.44			-14.32			-19.60	
7532 CC	82		-10.32			-14.20			19.22	
7532 K	83		-10.08			-13.92			19.16	
7532 BB	84		-10.04			-13.88			19.04	
7532 U	85		-10.32			14.16			19.44	

TEST LIMITS = -8.0V to VDD

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G32 (TERMINAL 14) - SUBGROUP B3 SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	NEWTORT BEACH, CAEIT.									
Device Identification		-17.0V		-21.5V			−27.6V			
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	−55°C	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76		68			84			-1.04	
7538 X	77		72			88			-1.08	
7538 LL	78		68			84			-1.04	
7532 NN	79		72			88			-1.08	
7532 H	80		72			88			-1.08	
7532 PP	81		72			84			-1.08	
7532 CC	82		72			88			-1.08	
7532 K	83		72			88			-1.08	
7532 BB	84		72			88			-1.08	
7532 U	85		72			88			-1.08	*

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FP (TERMINAL 15), V16M - SUBGROUP B3 SCALER INPUT (NEGATIVE BREAKDOWN), VOLTS ROCKWELL INTERNATIONAL

DATE 11-12-75 COLLINS DIVISIONS NEWPORT BEACH, CALIF.

Device Identification						10µA				
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ^о С	+25°C	+75°C	–55°C	+25°C	+75°C
7538 NN	76					-36.00				
7538 X	77					-34.04				
7538 LL	78					-40.12				
7532 NN	79					-32.64				
7532 H	80					-32.24				
7532 PP	81					-32.60				
7532 CC	82					-32.92				
7532 K	83					-32.28				
7532 BB	84					-35.44				
7532 U	85					-34.40				

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Q6 (TERMINAL 16) - SUBGROUP B3 SCALER OUTPUT (LOW LEVEL), VOLTS

COLLINS DIVISIONS DATE ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

Device Identific		-17.0V			-21.5V			-27.6V		
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	–55 ⁰ С	+25°C	+75°C	-55°C	+25°C	+75°C
7538 NN	76					-8.56			-13.24	
7538 X	77					-7.80			-11.76	
7538 LL	78					-7.28			-11.48	
7532 NN	79					-7.80			-11.92	
7532 H	80					-7.28			-11.48	
7532 PP	81					-8.08			-12.20	
7532 CC	82					-7.60			-11.48	
7532 K	83					-8.12			-11.76	
7532 BB	84					-6.88			-11.76	
7532 U	85					-7.28			-11.96	

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Q6 (TERMINAL 16) - SUBGROUP B3
SCALER OUTPUT (HIGH LEVEL), VOLTS

COLLINS DIVISIONS DATE 11-12-75 ROCKWELL INTERNATIONAL NEWPORT BEACH, CALIF.

	Device Identification		-17.0V			-21.5V			−27.6V		
DATE CODE	UNIT NO.	–55 ^о С	+25°C	+75°C	-55°C	+25°C	+75°C	-55°C	+25°C	+75°C	
7538 NN	76					-0.00			-0.00		
7538 X	77										
7538 LL	78										
7532 NN	79										
7532 H	80										
7532 PP	81										
7532 CC	82										
7532 K	83										
7532 BB	84										
7532 U	85					-0.00			-0.00		
Annual Control of the	Annual Control of the			And the second second			A CONTRACTOR OF THE PARTY OF TH				

TEST LIMITS = 0.0V to -0.1V 270

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